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170840

mg

From: Chan, Christina
Sent: Monday, November 07, 2005 11:20 AM
To: Whiteman, Brian; STIC-Biotech/ChemLib
Subject: RE: RUSH seq search

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(STIC)

Please rush. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644

(571)-272-0841

Remsen, 3E89

-----Original Message-----

From: Whiteman, Brian
Sent: Monday, November 07, 2005 10:46 AM
To: Chan, Christina
Subject: RUSH seq search

Christina,

sequence search after final.
Requesting a RUSH search

09/820,095 Wei et al. 3/29/01

SEQ ID NO: 1 and SEQ ID NO: 2 and nucleotides 1-2000 and 10,000-11,000 of SEQ ID NO: 3

- 1) search against us issued and published us patent databases
- 2) interference search

Thank you,

Brian Whiteman
Remsen, 2D14
mail box 2C18
Patent Examiner - Art Unit 1635
United States Patent and Trademark Office
(571) 272-0764

Searcher: OP
Searcher Phone: 202-504
Date Searcher Picked up: 11/8
Date completed: 11/15
Searcher Prep Time: 10
Online Time: 15

Type of Search
NA# ✓ AA# ✓
S/L: ✓ Oligomer: ✓
Encode/Transl: ✓
Structure #: ✓ Text: ✓
Inventor: ✓ Litigation: ✓

Vendors and cost where applicable
STN: ✓
DIALOG: ✓
QUESTEL/ORBIT: ✓
LEXIS/NEXIS: ✓
SEQUENCE SYSTEM: ✓
WWW/Internet: ✓
Other (Specify): ✓

This Page Blank (uspto)


```
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO 143733
/ LENGTH: 601
/ TYPE: DNA
/ ORGANISM: Human
/ US-09-949-016-143733
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Query Match      16.2%; Score 162.4; DB 4; Length 601;
Best Local Similarity 81.3%; Pred. No. 1.2e-34;
Matches 187; Conservative 1; Mismatches 42; Indels 0; Gaps 0;
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QY 772 TTCCCTCTCCCTCCAGCTTTGTTTTTTTAAAGACAGATCTCATCTGTCC 831
DB 313 TCGCTGCTCTCTCTTTTGTGAGAGAGATTGACCTCTGTGG 254
QY 832 CCAGCTGAGTGCAGTGGCCGACCTCGGCTACTGTAACTCTGCTGGTTCAA 891
DB 253 CCAGCTGAGTGCAGTGGCCGACCTCGGCTACTGTAACTCTGCTGGTTCAA 194
QY 892 CCGATTCTCTCTCTGAGCTCTGAGTGTGAGTGAATTCAGGTGCTGCACTACTCC 951
DB 193 GCGATTCTCTCTCTGAGCTCTGAGTGTGAGTGAATTCAGGTGCTGCACTACTCC 134
QY 952 AGCTAATTTTATTTTGTAGATAGAGATGGTTTTCACATGTTGGC 1001
DB 133 GCGTAATTTTGTATTTTGTAGTGAATGAGATTTTCAACATGTTGGC 84
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RESULT 3
US-09-949-016-15797
/ Sequence 15797, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO 15797
/ LENGTH: 34725
/ TYPE: DNA
/ ORGANISM: Human
/ US-09-949-016-15797
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Query Match      16.1%; Score 161.2; DB 4; Length 34725;
Best Local Similarity 81.3%; Pred. No. 1.7e-33;
Matches 187; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
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QY 772 TTCCCTCTCTCCCTCCAGCTTTGTTTTTTTAAAGACAGATCTCATCTGTCC 831
DB 313 TCGCTGCTCTCTCTTTTGTGAGAGAGATTGACCTCTGTGG 254
QY 832 CCAGCTGAGTGCAGTGGCCGACCTCGGCTACTGTAACTCTGCTGGTTCAA 891
DB 253 CCAGCTGAGTGCAGTGGCCGACCTCGGCTACTGTAACTCTGCTGGTTCAA 194
QY 892 CCGATTCTCTCTCTGAGCTCTGAGTGTGAGTGAATTCAGGTGCTGCACTACTCC 951
DB 193 GCGATTCTCTCTCTGAGCTCTGAGTGTGAGTGAATTCAGGTGCTGCACTACTCC 134
QY 952 AGCTAATTTTATTTTGTAGATAGAGATGGTTTTCACATGTTGGC 1001
DB 133 GCGTAATTTTGTATTTTGTAGTGAATGAGATTTTCAACATGTTGGC 84
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DB 4879 TCGCTGCTCTCTCTTTTGTGAGAGAGATTGACCTCTGTGGC 4938
QY 832 CCAGCTGAGTGCAGTGGCCGACCTCGGCTACTGTAACTCTGCTGGTTCAA 891
DB 4939 CCAGCTGAGTGCAGTGGCCGACCTCGGCTACTGTAACTCTGCTGGTTCAA 4998
QY 892 CCGATTCTCTCTCTGAGCTCTGAGTGTGAGTGAATTCAGGTGCTGCACTACTCC 951
DB 4999 GCGATTCTCTCTCTGAGCTCTGAGTGTGAGTGAATTCAGGTGCTGCACTACTCC 5058
QY 952 AGCTAATTTTATTTTGTAGATAGAGATGGTTTTCACATGTTGGC 1001
DB 5059 GCGTAATTTTGTATTTTGTAGTGAATGAGATTTTCAACATGTTGGC 5108
```

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RESULT 4
US-09-949-016-12808
/ Sequence 12808, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO 12808
/ LENGTH: 34765
/ TYPE: DNA
/ ORGANISM: Human
/ US-09-949-016-12808
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```
Query Match      16.1%; Score 161.2; DB 4; Length 34765;
Best Local Similarity 81.3%; Pred. No. 1.7e-33;
Matches 187; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
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```
QY 772 TTCCCTCTCCCTCCAGCTTTGTTTTTTTAAAGACAGATCTCATCTGTCC 831
DB 4879 TCGCTGCTCTCTCTTTTGTGAGAGAGATTGACCTCTGTGGC 4938
QY 832 CCAGCTGAGTGCAGTGGCCGACCTCGGCTACTGTAACTCTGCTGGTTCAA 891
DB 4939 CCAGCTGAGTGCAGTGGCCGACCTCGGCTACTGTAACTCTGCTGGTTCAA 4998
QY 892 CCGATTCTCTCTCTGAGCTCTGAGTGTGAGTGAATTCAGGTGCTGCACTACTCC 951
DB 4999 GCGATTCTCTCTCTGAGCTCTGAGTGTGAGTGAATTCAGGTGCTGCACTACTCC 5058
QY 952 AGCTAATTTTATTTTGTAGATAGAGATGGTTTTCACATGTTGGC 1001
DB 5059 GCGTAATTTTGTATTTTGTAGTGAATGAGATTTTCAACATGTTGGC 5108
```

```
RESULT 5
US-09-381-681-1
/ Sequence 1, Application US/09381681
/ Patent No. 6255472
/ GENERAL INFORMATION:
/ APPLICANT: TAKINO, Takashi
/ APPLICANT: NAKAMURA, Yusuke
/ TITLE OF INVENTION: HUMAN GENES
/ FILE REFERENCE: 055876
/ CURRENT APPLICATION NUMBER: US/09/381,681
/ PRIOR FILING DATE: 2000-01-10
/ EARLIER APPLICATION NUMBER: JPA 9-093044
```



```

; EARLIER FILING DATE: 1997-03-26
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1293
; TYPE: DNA
; ORGANISM: Human
US-09-381-681-1

Query Match      15.5%; Score 154.8; DB 3; Length 1293;
Best Local Similarity 71.0%; Pred. No. 2.1e-32;
Matches 281; Conservative 0; Mismatches 22; Indels 93; Gaps 2;

Qy 107 CCAGTCCAAATGCTTGGAGACCTGGAGCCCACTATTATTAAGCACTGCGCTATGAAAC 166
Db 605 CTAAGTCCAAATGCTTGGAGACCTGGAGCCCACTATTATTAAGCACTGCGCTATGAAAC 664
Qy 167 CACAATTCAGACCCCTTACTGTCCGCTGTTCCGATTTGGAGACCTTGTGGCCAAAGCTGGAG 226
Db 665 CACAATTCAGACCCCTTACTGTCCGCTGTTCCGATTTGGAGACCTTGTGGCCAAAGCTGGAG 724
Qy 227 GGAACCTTCGAGACCTGCGCTTGTGGTGGTCCCAAGTTGGGGGCAAGGTTCTTAGAGG 286
Db 725 GGAACCTTCGAGACCTGCGCTTGTGGTGGTCCCAAGTTGGGGGCAAGGTTCTTAGAGG 749
Qy 287 GCTCTGGAGAGGGTCCCGGGCCACCCACCGGTGAAAGCTATGTCTATGTGACAGG 346
Db 750 -----GGG 752
Qy 347 TGGCTCTGTAGGCACTAGAGTTTCACTGGAATTGTGACCTGGACACCGGGGACTGTGCTG 406
Db 753 TGGCTCTGTAGGCACTAGAGTTTCACTGGAATTGTGACCTGGACACCGGGGACTGTGCTG 812
Qy 407 CTGGCTCTACTCTCTTCCAGCTGCAAGAGAGAGTAACTTCAAGTGAAGC-CCCA 465
Db 813 CTGGCTCTACTCTCTTCCAGCTGCAAGAGAGAGTAACTTCAAGTGAAGC-CCCA 872
Qy 466 CTGCTCCCAAGTCCCAAGCTGCGGCGCCATCGCCCT 501
Db 873 CTGCTGGAGCAACCGGGGTGTGGAGGCCCGCACCT 908

RESULT 6
US-09-191-136-30
; Sequence 30, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Lynch, Kevin J.
; APPLICANT: Burgard, Edward C.
; APPLICANT: Van Biesen, T.
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production
; FILE REFERENCE: 6293 US P1
; CURRENT APPLICATION NUMBER: US/09/191,136B
; EARLIER FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 09/008,526
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 09/008,185
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,298
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,669
; EARLIER FILING DATE: 1998-01-16
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 30
; LENGTH: 1360
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Sequencing Primer (polynucleotide)
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US-09-191-136-30

Query Match      15.5%; Score 154.8; DB 3; Length 1360;
Best Local Similarity 71.0%; Pred. No. 2.1e-32;
Matches 281; Conservative 0; Mismatches 22; Indels 93; Gaps 2;

Qy 107 CCAGTCCAAATGCTTGGAGACCTGGAGCCCACTATTATTAAGCACTGCGCTATGAAAC 166
Db 650 CTAAGTCCAAATGCTTGGAGACCTGGAGCCCACTATTATTAAGCACTGCGCTATGAAAC 709
Qy 167 CACAATTCAGACCCCTTACTGTCCGCTGTTCCGATTTGGAGACCTTGTGGCCAAAGCTGGAG 226
Db 710 CACAATTCAGACCCCTTACTGTCCGCTGTTCCGATTTGGAGACCTTGTGGCCAAAGCTGGAG 769
Qy 227 GGAACCTTCGAGACCTGCGCTTGTGGTGGTCCCAAGTTGGGGGCAAGGTTCTTAGAGG 286
Db 770 GGAACCTTCGAGACCTGCGCTTGTGGTGGTCCCAAGTTGGGGGCAAGGTTCTTAGAGG 794
Qy 287 GCTCTGGAGAGGGTCCCGGGCCACCCACCGGTGAAAGCTATGTATGTGACAGG 346
Db 795 -----GGG 797
Qy 347 TGGCTCTGTAGGCACTAGAGTTTCACTGGAATTGTGACCTGGACACCGGGGACTGTGCTG 406
Db 798 TGGCTCTGTAGGCACTAGAGTTTCACTGGAATTGTGACCTGGACACCGGGGACTGTGCTG 857
Qy 407 CTGGCTCTACTCTCTTCCAGCTGCAAGAGAGAGTAACTTCAAGTGAAGC-CCCA 465
Db 858 CTGGCTCTACTCTCTTCCAGCTGCAAGAGAGAGTAACTTCAAGTGAAGC-CCCA 917
Qy 466 CTGCTCCCAAGTCCCAAGCTGCGGCGCCATCGCCCT 501
Db 918 CTGCTGGAGCAACCGGGGTGTGGAGGCCCGCACCT 953

RESULT 7
US-09-381-681-2
; Sequence 2, Application US/09381681
; Patent No. 6235472
; GENERAL INFORMATION:
; APPLICANT: TAKINO, Takashi
; APPLICANT: NAKAMURA, Yusuke
; TITLE OF INVENTION: HUMAN GENES
; FILE REFERENCE: 055876
; CURRENT APPLICATION NUMBER: US/09/381,681
; CURRENT FILING DATE: 2000-01-10
; EARLIER APPLICATION NUMBER: JPA 9-093044
; EARLIER FILING DATE: 1997-03-26
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1697
; TYPE: DNA
; ORGANISM: Human
; NAME/KEY: CDS
; LOCATION: (46)..(1338)
US-09-381-681-2

Query Match      15.5%; Score 154.8; DB 3; Length 1697;
Best Local Similarity 71.0%; Pred. No. 2.3e-32;
Matches 281; Conservative 0; Mismatches 22; Indels 93; Gaps 2;

Qy 107 CCAGTCCAAATGCTTGGAGACCTGGAGCCCACTATTATTAAGCACTGCGCTATGAAAC 166
Db 650 CTAAGTCCAAATGCTTGGAGACCTGGAGCCCACTATTATTAAGCACTGCGCTATGAAAC 709
Qy 167 CACAATTCAGACCCCTTACTGTCCGCTGTTCCGATTTGGAGACCTTGTGGCCAAAGCTGGAG 226
Db 710 CACAATTCAGACCCCTTACTGTCCGCTGTTCCGATTTGGAGACCTTGTGGCCAAAGCTGGAG 769
Qy 227 GGAACCTTCGAGACCTGCGCTTGTGGTGGTCCCAAGTTGGGGGCAAGGTTCTTAGAGG 286
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Db 770 GGACCTTCAGAGACCTGGCGTTGCT----- 794
Qy 287 GCTCTGGAGAGGGTCCCGGGCCACCACCGGTGAGAAAGCTATGCTATGTGAGGG 346
Db 795 -----GGG 797
Qy 347 TGGCTGTAGAGCATCAGAGTTTCTAGTGGATTGTGACCTGGACACCGGGACTCTGGCTG 406
Db 798 TGGCTGTAGAGCATCAGAGTTTCTAGTGGATTGTGACCTGGACACCGGGGGACTCTGGCTG 857
Qy 407 CTGGCTCTACTACTCTCTTCCAGCTGCAGAGAGAGACTTACACTTCAAGGTGAGGC-CCCA 465
Db 858 CTGGCTCTACTACTCTTCCAGCTGCAGAGAGAGACTTACACTTCAAGGTGAGGCACCTCA 917
Qy 466 CTGGCTCCAGTGGCCAGCTGCTGGGCCCATCGCCCT 501
Db 918 CTGGTGGAGCAACCGGGTGTGAGAGGCCCGCACCT 953

RESULT 8
US-09-497-855A-38
; Sequence 38, Application US/09497855A
; Patent No. 6603432
; GENERAL INFORMATION:
; APPLICANT: Huang, Tim
; TITLE OF INVENTION: HIGH-THROUGHPUT METHODS FOR DETECTING DNA METHYLATION
; FILE REFERENCE: UMO1523
; CURRENT APPLICATION NUMBER: US/09/497, 855A
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/120, 592
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: 60/118, 760
; PRIOR FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 38
; LENGTH: 128779
; TYPE: DNA
; ORGANISM: Homo sapiens;
US-09-497-855A-38

Query Match 15.3%; Score 153; DB 4; Length 128779;
Best Local Similarity 77.2%; Pred. No. 5.5e-31;
Matches 186; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

Qy 759 TTTCATTTTACTTTCCTCTCCCTTCAGCTTTGTTTTTTTTTTAAAGACGAT 818
Db 94246 TATTAATTACTTTAAAAATTTTATTCTACTTTTTTTTTTTTGGAGACAAGAT 94305
Qy 819 CTCATCTGTGACCCAGGCTGAGTGCAGTGGCCGACCTCGGCTCACTGTACCTCTGC 878
Db 94306 CTTACTCTGTGACCCAGGCTGAGTGCAGTGGCCGACCTCGGCTCACTGTGACCTCTGC 94365
Qy 879 TTCCTGGGTTCAACCATTTCTCTCTCTGAGCTCTGAGTACTGGAATTACAGGTGCT 938
Db 94366 CTCCTGAGTTCAAGAAATCTGTGCTCAGCTCCGAGTACTGGATTAAGGCACA 94425
Qy 939 CGGCACTACTCCAGCTAATTTTATTTTGTGTAATAGATGGGTTTCAAGTGT 998
Db 94426 TGGCACCAGCCGAGCTAATTTTGTATTTTGTGTAATAGATGGGATTTTCAACATGCT 94485
Qy 999 G 999
Db 94486 G 94486

RESULT 9
US-09-949-016-81108/c
; Sequence 81108, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81108
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-81108

Query Match 15.1%; Score 151.4; DB 4; Length 601;
Best Local Similarity 79.7%; Pred. No. 1.2e-31;
Matches 192; Conservative 0; Mismatches 46; Indels 3; Gaps 1;

Qy 761 TCATTTTACTTCCCTTCTCCCTTCAGCTTTGTTTTTTTTTTAAGACAGATCT 820
Db 488 TCATTTCTGTGTGCTCTCTTCTGACCTTATTTATTTTATTTTGGAGACAGTCT 429
Qy 821 CATTCGTGACCCAGGCTGAGTGCAGTGGCCGACCTGGCTCACTGTACCTGCTT 880
Db 428 CACTCTGTGCCCAGGCTGAGTGCAGTGGCCGACCTGGCTCACTGTGACCTGCTT 369
Qy 881 CCTGGTTCAACCGATTCTCTCTCTGAGCTCTGAGTGTGAAATTACAGTCTGC 940
Db 368 CCGGTGTTAAGTATGATTCCTACTGACCTCCGAGTGTGAGTATTCAGTGTCCG 309
Qy 941 CCACTACTCCAGCTAATTTTATTTTGTGTAATAGATGGTTCACATGTTGG 1000
Db 308 CCACCACRCCTGCTAATTTTGTATTT--TCGGTAGAGAGGGGTTTCACTATGTTGA 252
Qy 1001 C 1001
Db 251 C 251

RESULT 10
US-09-949-016-81109/c
; Sequence 81109, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81109
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-81109

Query Match 15.1%; Score 151.4; DB 4; Length 601;
Best Local Similarity 79.7%; Pred. No. 1.2e-31;
Matches 192; Conservative 0; Mismatches 46; Indels 3; Gaps 1;

Qy 761 TCATTTTACTTCCCTTCTCCCTTCAGCTTTGTTTTTTTTTTAAGACAGATCT 820

D _b	392	TCAATTCGTGTTTGTCTCCTCTTCTTGACCTAATTTTTATTTTTTTTTTTTTTTTGGAGACGAATCT	333
Q _y	821	CATTTCTSTNCACCAGAGCTGAGTAGTGCCGCCGACTCGGCCTCACTGTAACTCTTGCTT	880
D _b	332	CACCTGTGTGCCAGGCTAGAGTGAAGTAAGACRCAATCTGGCTCATTTGCAACCTCTGCCT	273
Q _y	881	CCTGGGTTTCAACCGAATTCCTCTCCTCAGCCCTCTAGTAGAAGTGAATTAACAGGTGCTCG	940
D _b	272	GCCGGTTTCAAGTAGATTCTCCTACCACTCACCCCTCCAGAAGCTGGGAGTTTACAAGTGCCTG	213
Q _y	941	CCACTACTCCCAAGTAATTTTTATAATTTTTGGTAGATAGATGGGTTTTTACAATGTGG	1000
D _b	212	CCACCAGCCCTGGCTAATTTTTGTATTT---TCGGTAGAGACGGGGTTTACATATGTTGA	156
Q _y	1001	C 1001	
D _b	155	C 155	

```

11 RESULT 11
US-09-949-016-14091/c
: Sequence 14091, Application US/09949016
: Patent No. 6812339
: GENERAL INFORMATION:
: APPLICANT: VENTER, J. Craig et al.
: TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
: FILE REFERENCE: C1001307
: CURRENT APPLICATION NUMBER: US/09/949, 016
: CURRENT FILING DATE: 2000-04-14
: PRIOR APPLICATION NUMBER: 60/241,755
: PRIOR FILING DATE: 2000-10-20
: PRIOR APPLICATION NUMBER: 60/237,768
: PRIOR FILING DATE: 2000-10-03
: PRIOR APPLICATION NUMBER: 60/231,498
: PRIOR FILING DATE: 2000-09-08
: NUMBER OF SEQ ID NOS: 207012
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 14091
: LENGTH: 48994
: TYPE: DNA
: ORGANISM: Human
US-09-949-016-14091

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Query Match	15.1%	Score 151.4	DB 4	length 48994
Best Local Similarity	79.7%	Pred. No. 9,66-31		
Matches	192	Conservative	0	Mismatches 46; Indels 3; Gaps 11
OY	761	TCATTTTACGTTCCCTTCCTCCCTTCAAGCTTTGTTTTTTTTTTTAAAGACAGATCT	820	
Db	4768	TCATTTGTTGTCTCTTCGACCTTTATTTTATTTTATTTTGTGAGACAGAGCT	4709	
OY	821	CATTCGTACCCAGCGTGAGTGAGAGGCCCGACCTCGGCTCACTGTAACCTGTGCT	880	
Db	4708	CACCTGTGTGCCGAGCTAGAGTAGAGTGAGGCCCACTTCGGTCAATTGCACACTGTGCT	4644	
OY	881	CCTGGGTTCAACCGATTCTCCTCTCAAGCTCTGAGTAGCTGGAATTACAGTGTCTG	940	
Db	4648	CCCGGTTCAAGTAGATTCCTCAACCTCAGCCCTCCGAGTAGCTGGGAATTACAGGTGCCG	4588	
OY	941	CCACTACTCCAGCTAAATTTTATATTTTGGAGATAGAGATGGGTTTTCACATGTGTG	1000	
Db	4588	CCACGACCGCTGGCTAATTTTTGTATTTT---TCGGTAGAGAGCGGGTTTCACTATGTTGA	4532	
OY	1001	C 1001		
Db	4531	C 4531		

RESULT 12
US-09-949-016-17183
; Sequence 17183, Application US/09949016

```

1 Patent NO. 6812339
2 GENERAL INFORMATION:
3 APPLICANT: VENTER, J. Craig et al.
4 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
5 WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
6 FILE REFERENCE: C1001307
7 CURRENT APPLICATION NUMBER: US/09/949,016
8 PRIORITY FILING DATE: 2000-04-14
9 PRIOR APPLICATION NUMBER: 60/241,755
10 PRIOR FILING DATE: 2000-10-20
11 PRIOR APPLICATION NUMBER: 60/237,768
12 PRIOR FILING DATE: 2000-10-03
13 PRIOR APPLICATION NUMBER: 60/231,498
14 PRIOR FILING DATE: 2000-09-08
15 NUMBER OF SEQ ID NOS: 207012
16 SOFTWARE: FASTSEQ for Windows Version 4.0
17 SEQ ID NO 17183
18 LENGTH: 18572
19 TYPE: DNA
20 ORGANISM: Human
21 US-09-949-016-17183

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	Query Match	15.1%;	Score 151.2;	DB 4;	Length 18572;
	Best local Similarity	76.2%;	Pred. No. 6,9e-31;		
	Matches 186;	Conservative 0;	Mismatches 58;	Indels 0;	Gaps 0;
Oy	757	TGTTTCATTTTAACTTTCCTCCCTTCCTCAGCTTGTGTTTTTTTTTTTAAAGACAGA	816		
Db	10852	TGAGTCATTTTMCATGTGATGATTTTTTCTTTTCTTTTCTTTTTTTTTTTTTTAAAGACAGA	10911		
Oy	817	ATCTCATTTCTGTACACCGAGCTGTGATGACAGTGGCCGACCTCGGCTCACTGTAACCTCT	876		
Db	10912	GTCTCGCTGTGTACCCAGGCTGTGATGTGACAGTGGACAACTCTTGGCCCACTGCACCTCC	10971		
Oy	877	GCTTCCGTGGTTACACGATTTCTCTCTCAGCTCTGAGTAGCTGAATTAACAAGTG	936		
Db	10972	ACCTCTCGGGTTTCAACGATTTCTCCGCTCATCTCCCTGAGTACTGTGGATTTAACAAGGG	11031		
Oy	937	CTGGCCACTCTCCGACGTAATTTATATTTTGTAGATTAAGATGGGTTTTCACAATG	996		
Db	11032	CGACACACCAAGGCCAGCTATTTTTTTTATATTTTTTAATAAGACGGGGTTTCACTATA	11091		
Oy	997	TTGG 1000			
Db	11092	TTGG 10995			

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RESULT 13
US-09-949-016-81110/c
; Sequence 81110 Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ For Windows Version 4.0
; SEQ ID NO 81110
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-81110

Query Match      15.1%;   Score 151;   DB 4;   Length 601;

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 14, 2005, 09:54:02 ; Search time 824.146 Seconds
(without alignments)
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Title: US-09-820-095B-3_COPY_10000_11000

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Scoring table:
IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9794790 seqs, 4134909567 residues

Total number of hits satisfying chosen parameters: 19589580

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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- 11: /cgn2_6/prodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/prodata/2/pubpna/US09C_NEW_PUB.seq:*
- 13: /cgn2_6/prodata/2/pubpna/US09_NEW_PUB.seq:*
- 14: /cgn2_6/prodata/2/pubpna/US10A_PUBCOMB.seq:*
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- 17: /cgn2_6/prodata/2/pubpna/US10D_PUBCOMB.seq:*
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- 20: /cgn2_6/prodata/2/pubpna/US10G_PUBCOMB.seq:*
- 21: /cgn2_6/prodata/2/pubpna/US10H_PUBCOMB.seq:*
- 22: /cgn2_6/prodata/2/pubpna/US10I_PUBCOMB.seq:*
- 23: /cgn2_6/prodata/2/pubpna/US10I_NEW_PUB.seq:*
- 24: /cgn2_6/prodata/2/pubpna/US10_NEW_PUB.seq:*
- 25: /cgn2_6/prodata/2/pubpna/US11A_PUBCOMB.seq:*
- 26: /cgn2_6/prodata/2/pubpna/US11_NEW_PUB.seq:*
- 27: /cgn2_6/prodata/2/pubpna/US60_NEW_PUB.seq:*
- 28: /cgn2_6/prodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1001	100.0	16449	10	US-09-820-095-3
2	393	39.3	576	9	US-09-864-761-9249
3	383	38.3	738	13	US-09-925-065A-54950
4	383	38.3	738	13	US-09-925-065A-54951
5	379	37.9	1406	13	US-09-925-065A-71141

Query Match	Best Local Similarity	100.0%; Score 1001; DB 10; Length 16449;
Matches 1001; Conservative 0; Mismatches 0; Indels 0;		
1	ACACGCTCACCTTCAGCAAGTTCACTTCTTAAGTAAGCAGATGGGTCTCATCTGCCC	60
2	ACACGCTCACCTTCAGCAAGTTCACTTCTTAAGTAAGCAGATGGGTCTCATCTGCCC	60
3	ACACGCTCACCTTCAGCAAGTTCACTTCTTAAGTAAGCAGATGGGTCTCATCTGCCC	60
4	ACACGCTCACCTTCAGCAAGTTCACTTCTTAAGTAAGCAGATGGGTCTCATCTGCCC	60
5	ACACGCTCACCTTCAGCAAGTTCACTTCTTAAGTAAGCAGATGGGTCTCATCTGCCC	60

ALIGNMENTS

RESULT 1
US-09-820-095-3
; Sequence 3, Application US/09820095
; Publication No. US20030233668A1
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR
; FILE REFERENCE: C1001202
; CURRENT APPLICATION NUMBER: US/09/820,095
; CURRENT FILING DATE: 2001-03-29
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 16449
; TYPE: DNA
; ORGANISM: Human
; US-09-820-095-3

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QY      61  CAAGACCCCTCTGTGCTCCCTCACTCATCTACCTTTCCCACTCTCCAGGCTCCATGCC 120
Db      10060 CAAGACCCCTCTGTGCTCCCTCACTCATCTACCTTTCCCACTCTCCAGGCTCCATGCC 10119
QY      121  TTGGAGACCTGGAGCCCACTATTTTAAGACAGCCGCTATGAAACACAATTCAGCCCC 180
Db      10120 TTGGAGACCTGGAGCCCACTATTTTAAGACAGCCGCTATGAAACACAATTCAGCCCC 10179
QY      181  TACTGTCCGCTGTTCCGACTTGGGAGACCTGTGGCCAAAGGCTGAGGACCTTCAGAGAC 240
Db      10180 TACTGTCCGCTGTTCCGACTTGGGAGACCTGTGGCCAAAGGCTGAGGACCTTCAGAGAC 10239
QY      241  CTGGGCGTGTGTGGTGTCCCAAGTTGGGGGAGGGTTCCTTAAGAGGCTCTGGAGAGGG 300
Db      10240 CTGGGCGTGTGTGGTGTCCCAAGTTGGGGGAGGGTTCCTTAAGAGGCTCTGGAGAGGG 10299
QY      301  TCCCGGGGCCCAACCCACCGGTGAAAGACTATGTGCTATGTGCAAGGGGTCTGTAGGCA 360
Db      10300 TCCCGGGGCCCAACCCACCGGTGAAAGACTATGTGCTATGTGCAAGGGGTCTGTAGGCA 10359
QY      361  TCAGAGTTCACTGGGATTTGTACCTGGACAACCGGGGACTGTGGCTGTCACTACT 420
Db      10360 TCAGAGTTCACTGGGATTTGTACCTGGACAACCGGGGACTGTGGCTGTCACTACT 10419
QY      421  CCTTCCAGCTGCAAGAGAAAGCTATACACTTCAAGTGAAGGCCCTCTCCAGTGGCC 480
Db      10420 CCTTCCAGCTGCAAGAGAAAGCTATACACTTCAAGTGAAGGCCCTCTCCAGTGGCC 10479
QY      481  AGCTGTGGGGCCCATGAGCCTCTCACTGTGGGCGGACAGACAAGACCAACCCAGGCCAG 540
Db      10480 AGCTGTGGGGCCCATGAGCCTCTCACTGTGGGCGGACAGACAAGACCAACCCAGGCCAG 10539
QY      541  GCCTCTAGATATTCCAATAAGTGTGCAAGGGGTTCCAGAGAGAGAGAGAGTGTTC 600
Db      10540 GCCTCTAGATATTCCAATAAGTGTGCAAGGGGTTCCAGAGAGAGAGAGAGTGTTC 10599
QY      601  AACCCCAACATCTCCCAAGACAGAGCTCCGCTCTCTGCTCCCAAGTCTGAGCCCTCAACC 660
Db      10600 AACCCCAACATCTCCCAAGACAGAGCTCCGCTCTCTGCTCCCAAGTCTGAGCCCTCAACC 10659
QY      661  CATCTGTCCAGAGCCCTGAGCTCAGGCTCCTCACTGACGACGACCCCTTCCACCCCA 720
Db      10660 CATCTGTCCAGAGCCCTGAGCTCAGGCTCCTCACTGACGACGACCCCTTCCACCCCA 10719
QY      721  CCTGCTTCAAGTATCTCCCTCCACAGCAATGGGGTGTTCATTTTAACTTTCCCTTC 780
Db      10720 CCTGCTTCAAGTATCTCCCTCCACAGCAATGGGGTGTTCATTTTAACTTTCCCTTC 10779
QY      781  TCCCTCTCAAGCTTTGTTTTTTTTTTTAAAGACAAATCTCATCTGTCAACCAAGCTGG 840
Db      10780 TCCCTCTCAAGCTTTGTTTTTTTTTTTAAAGACAAATCTCATCTGTCAACCAAGCTGG 10839
QY      841  AGTGCAGTGGCCGACCTGAGCTCACTGTAACCTGTGCTTCTGGGTTCAACCGATTCTC 900
Db      10840 AGTGCAGTGGCCGACCTGAGCTCACTGTAACCTGTGCTTCTGGGTTCAACCGATTCTC 10899
QY      901  CTTCCTCAAGCTTCTGAGTGAAGTGAATTAACAAGTCTGCGCACTAATCCAGCTAATT 960
Db      10900 CTTCCTCAAGCTTCTGAGTGAAGTGAATTAACAAGTCTGCGCACTAATCCAGCTAATT 10959
QY      961  TTAATATTGGTGAAGAGAGATGGTTTTCACAAATGTGGC 1001
Db      10960 TTAATATTGGTGAAGAGATGGTTTTCACAAATGTGGC 11000

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RESULT 2

US-09-864-761-9249/c
Sequence 9249, Application US/09864761
Patent No. US20020048763A1

GENERAL INFORMATION:

APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.

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/ APPLICANT: Chen, Wensheng
/ TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
/ FILE REFERENCE: Aeomica-X-1
/ CURRENT APPLICATION NUMBER: US/09/864,761
/ CURRENT FILING DATE: 2001-05-23
/ PRIOR APPLICATION NUMBER: US 60/180,312
/ PRIOR FILING DATE: 2000-02-04
/ PRIOR APPLICATION NUMBER: US 60/207,456
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: US 09/632,366
/ PRIOR FILING DATE: 2000-08-03
/ PRIOR APPLICATION NUMBER: GB 24263.6
/ PRIOR FILING DATE: 2000-10-04
/ PRIOR APPLICATION NUMBER: US 60/236,359
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: PCT/US01/00666
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00667
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00664
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00669
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00665
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00668
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00663
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00662
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00661
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00670
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: US 60/234,687
/ PRIOR FILING DATE: 2000-09-21
/ PRIOR APPLICATION NUMBER: US 09/608,408
/ PRIOR FILING DATE: 2000-06-30
/ PRIOR APPLICATION NUMBER: US 09/774,203
/ PRIOR FILING DATE: 2001-01-29
/ NUMBER OF SEQ ID NOS: 49117
/ SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
/ SEQ ID NO 9249
/ LENGTH: 576
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ OTHER INFORMATION: MAP TO AC002472.3
/ OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.9
/ OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.4
/ OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6
/ OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.6
/ OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.5
/ OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.1
/ US-09-864-761-9249

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Query Match 39.3%; Score 393; DB 9; Length 576;

Best Local Similarity 100.0%; Pred. No. 1.7e-104; Mismatches 0; Indels 0; Gaps 0;

Matches 393; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1  ACACAGTCACTTTCAGAGATTTCATCTCTAAGTAAGACAGAGGGGTCTGATCTGCC 60
Db      393  ACACAGTCACTTTCAGAGATTTCATCTCTAAGTAAGACAGAGGGGTCTGATCTGCC 334
QY      61  CAAGACCTCTCTGTGCTCCCTCACTCATCTGACCTTTCCCACTCTCCAGGTCCAAATGCC 120
Db      333  CAAGACCTCTCTGTGCTCCCTCACTCATCTGACCTTTCCCACTCTCCAGGTCCAAATGCC 274
QY      121  TTGGAGACCTGGAGCCCAACCCATTTTAAAGCACTGCGGTATGACCAACCAATTCAGCCCC 180
Db      273  TTGGAGACCTGGAGCCCAACCCATTTTAAAGCACTGCGGTATGACCAACCAATTCAGCCCC 214

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QY 181 TACTGTCCGCTGTTCGCAATTGGGGGACCTTCGTGGCCAAAGGCTGGAGGACCTTCGAGGAC 240
Db 213 TACTGTCCGCTGTTCGCAATTGGGGGACCTTCGTGGCCAAAGGCTGGAGGACCTTCGAGGAC 154
QY 241 CTGGCGTTGCTGTGGGTGCCCAAGTTGGGGGCAAGGTTCTCTAAGAGGGCTCTGGAGAGGG 300
Db 153 CTGGCGTTGCTGTGGGTGCCCAAGTTGGGGGCAAGGTTCTCTAAGAGGGCTCTGGAGAGGG 94
QY 301 TCCCGGGCCCAACCAACCGGTGGGAAAGCTATGTGCTATGTGCAAGGGGTGCTCTGTAGGCA 360
Db 93 TCCCGGGCCCAACCAACCGGTGGGAAAGCTATGTGCTATGTGCAAGGGGTGCTCTGTAGGCA 34
QY 361 TCAGAGTTCACTGGAGATTGTGACCTGGACCCG 393
Db 33 TCAGAGTTCACTGGAGATTGTGACCTGGACCCG 1

RESULT 3
US-09-925-065A-54950
; Sequence 54950, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925, 065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243, 096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252, 147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250, 092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261, 766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289, 846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54950
; LENGTH: 738
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-54950

Query Match 38.3%; Score 383; DB 13; Length 738;
Best Local Similarity 100.0%; Pred. No. 1.5e-101; Indels 0; Gaps 0;
Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACACAGTCACCTTCAGCAAGTTCAACTTCTTAAGTAAGCAGAGTGGGTCTCATCTGCCC 60
Db 356 ACACAGTCACCTTCAGCAAGTTCAACTTCTTAAGTAAGCAGAGTGGGTCTCATCTGCCC 415
QY 61 CAAGACCTCTCTGTGCTCCCTAATCTGATCTGACCTTTTCCCACTCTCCAGGTCCAATGCC 120
Db 416 CAAGACCTCTCTGTGCTCCCTAATCTGATCTGACCTTTTCCCACTCTCCAGGTCCAATGCC 475
QY 121 TTGAGACCTGGGACCCCACTATTTTAAGCACTGCGGCTATGAAACCAATTGAGCCCC 180
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QY 181 TACTGTCCGCTGTTCGCAATTGGGGGACCTTCGTGGCCAAAGGCTGGAGGACCTTCGAGGAC 240
Db 536 TACTGTCCGCTGTTCGCAATTGGGGGACCTTCGTGGCCAAAGGCTGGAGGACCTTCGAGGAC 595
QY 241 CTGGCGTTGCTGTGGGTGCCCAAGTTGGGGGCAAGGTTCTCTAAGAGGGCTCTGGAGAGGG 300
Db 596 CTGGCGTTGCTGTGGGTGCCCAAGTTGGGGGCAAGGTTCTCTAAGAGGGCTCTGGAGAGGG 655
QY 301 TCCCGGGCCCAACCAACCGGTGGGAAAGCTATGTGCTATGTGCAAGGGGTGCTCTGTAGGCA 360
Db 33 TCAGAGTTCACTGGAGATTGTGACCTGGACCCG 1
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Db 716 TCAGAGTTCACTGGAGATTGTGAC 738

RESULT 4
US-09-925-065A-54951
; Sequence 54951, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925, 065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243, 096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252, 147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250, 092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261, 766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289, 846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54951
; LENGTH: 738
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-54951

Query Match 38.3%; Score 383; DB 13; Length 738;
Best Local Similarity 100.0%; Pred. No. 1.5e-101; Indels 0; Gaps 0;
Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACACAGTCACCTTCAGCAAGTTCAACTTCTTAAGTAAGCAGAGTGGGTCTCATCTGCCC 60
Db 356 ACACAGTCACCTTCAGCAAGTTCAACTTCTTAAGTAAGCAGAGTGGGTCTCATCTGCCC 415
QY 61 CAAGACCTCTCTGTGCTCCCTAATCTGATCTGACCTTTTCCCACTCTCCAGGTCCAATGCC 120
Db 416 CAAGACCTCTCTGTGCTCCCTAATCTGATCTGACCTTTTCCCACTCTCCAGGTCCAATGCC 475
QY 121 TTGAGACCTGGGACCCCACTATTTTAAGCACTGCGGCTATGAAACCAATTGAGCCCC 180
Db 476 TTGAGACCTGGGACCCCACTATTTTAAGCACTGCGGCTATGAAACCAATTGAGCCCC 535
QY 181 TACTGTCCGCTGTTCGCAATTGGGGGACCTTCGTGGCCAAAGGCTGGAGGACCTTCGAGGAC 240
Db 536 TACTGTCCGCTGTTCGCAATTGGGGGACCTTCGTGGCCAAAGGCTGGAGGACCTTCGAGGAC 595
QY 241 CTGGCGTTGCTGTGGGTGCCCAAGTTGGGGGCAAGGTTCTCTAAGAGGGCTCTGGAGAGGG 300
Db 596 CTGGCGTTGCTGTGGGTGCCCAAGTTGGGGGCAAGGTTCTCTAAGAGGGCTCTGGAGAGGG 655
QY 301 TCCCGGGCCCAACCAACCGGTGGGAAAGCTATGTGCTATGTGCAAGGGGTGCTCTGTAGGCA 360
Db 656 TCCCGGGCCCAACCAACCGGTGGGAAAGCTATGTGCTATGTGCAAGGGGTGCTCTGTAGGCA 715
QY 361 TCAGAGTTCACTGGAGATTGTGAC 383
Db 716 TCAGAGTTCACTGGAGATTGTGAC 738

RESULT 5
US-09-925-065A-71141
; Sequence 71141, Application US/09925065A
; Publication No. US20050228172A9
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; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: Nucleotide Polymorphisms in the Human Genome
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 71141
; LENGTH: 1406
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-065A-71141

Query Match      37.9%; Score 379; DB 13; Length 1406;
Best Local Similarity 100.0%; Pred. No. 2.8e-100;
Matches 379; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB      1028 ACACAGTCACTTTCACAGTTCACCTTCTCTAAGTAGAGAGTGGTCTCATCTGCCC 1087
QY      61 CAAGACCTCTCTGTCTCCCTACCTCATCTGACCTTCCCACTCTCCAGAGTCCATGACC 120
DB      1088 CAAGACCTCTCTGTCTCCCTACCTCATCTGACCTTCCCACTCTCCAGAGTCCATGACC 1147
QY      121 TTGGAGACCTGGAGCCCACTATTTTAAAGACATGCGCGCTATGAAACCAATTCAGCCCC 180
DB      1148 TTGGAGACCTGGAGCCCACTATTTTAAAGACATGCGCGCTATGAAACCAATTCAGCCCC 1207
QY      181 TACTGTCCCGTGTTCCTGGCATTTGGGGACCTTCGTGGCCAAAGCTGGAGAGACCTTCGAGAAC 240
DB      1208 TACTGTCCCGTGTTCCTGGCATTTGGGGACCTTCGTGGCCAAAGCTGGAGAGACCTTCGAGAAC 1267
QY      241 CTGGACCTTGTGGTGGTCCCAAGTGGGGGACAGGCTTCCTAGAGGCTCTGGAGAGAGG 300
DB      1268 CTGGACCTTGTGGTGGTCCCAAGTGGGGGACAGGCTTCCTAGAGGCTCTGGAGAGAGG 1327
QY      301 TCCCGGGCCACCCACCGGTGAAAAGCTATGTCTATGTGACAGGGTGGCTCTGTAGGCA 360
DB      1328 TCCCGGGCCACCCACCGGTGAAAAGCTATGTCTATGTGACAGGGTGGCTCTGTAGGCA 1387
QY      361 TCAGAGTTCATCTGGGATTG 379
DB      1388 TCAGAGTTCATCTGGGATTG 1406

RESULT 6
US-09-864-761-2179/c
; Sequence 2179, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
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; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 2179
; LENGTH: 440
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC002472.3
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 4.9
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 5
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 5
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 6.2
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.6
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 3.5
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.4
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 4.4
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 3.6
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.7
; US-09-864-761-2179

Query Match      36.4%; Score 364; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 4.8e-96;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACACAGTCACTTTCACAGTTCACCTTCTCTAAGTAGAGAGTGGTCTCATCTGCCC 60
DB      364 ACACAGTCACTTTCACAGTTCACCTTCTCTAAGTAGAGAGTGGTCTCATCTGCCC 305
QY      61 CAAGACCTCTCTGTCTCCCTACCTCATCTGACCTTTCACCTCTCCAGAGTCCATGACC 120
DB      304 CAAGACCTCTCTGTCTCCCTACCTCATCTGACCTTTCACCTCTCCAGAGTCCATGACC 245
QY      121 TTGGAGACCTGGAGCCCACTATTTTAAAGCATGCGCGCTATGAACCAATTCAGCCCC 180
DB      244 TTGGAGACCTGGAGCCCACTATTTTAAAGCATGCGCGCTATGAACCAATTCAGCCCC 185
QY      181 TACTGTCCCGTGTTCCTGGCATTTGGGACCTTCGTGGCCAAAGCTGGAGGACCTTCGAGAAC 240
```


Db 184 TACTGTCCCGTGTCCGATTGGGACCTGTGGCCAAAGCTGAGGAGACCTTCAGAGAC 125
QY 241 CTGGCGCTGTGTTGGTGTCCCAAGTTGGGGCAGAGTTCTTCAAGAGGCTCTGGAGAGG 300
Db 124 CTGGCGCTGTGTTGGTGTCCCAAGTTGGGGCAGAGTTCTTCAAGAGGCTCTGGAGAGG 65
QY 301 TCCCGGGCCCAACCCAGCGGTGGAAGAAAGCTATGTGCTATGTGTCAGAGGTGCTCTGAGCA 360
Db 64 TCCCGGGCCCAACCCAGCGGTGGAAGAAAGCTATGTGCTATGTGTCAGAGGTGCTCTGAGCA 5
QY 361 TCAG 364
Db 4 TCAG 1

RESULT 7

US-09-925-065A-69234
; Sequence 69234, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69234
; LENGTH: 679
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-69234

Query Match 31.0%; Score 310; DB 13; Length 679;

Best Local Similarity 100.0%; Pred. No. 3.6e-80; Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACACAGTCACCTTCAGAGATTCACTTCTTAAGTAAGCAGAGTGGTCTCATCTGCC 60
Db 370 ACACAGTCACCTTCAGAGATTCACTTCTTAAGTAAGCAGAGTGGTCTCATCTGCC 429
QY 61 CAAGACCTCTCTGTGCTCCCTAATCTGACCTTTCCCACTCTCCCAAGTCCATGCC 120
Db 430 CAAGACCTCTCTGTGCTCCCTAATCTGACCTTTCCCACTCTCCCAAGTCCATGCC 489
QY 121 TTGAGAGCTTGGAGACCCCACTATTATTAAGCATGCGCGCTATGAAACACAAATTAGCCCC 180
Db 490 TTGAGAGCTTGGAGACCCCACTATTATTAAGCATGCGCGCTATGAAACACAAATTAGCCCC 549
QY 181 TACTGTCCCGTGTCCGATTGGGACCTGTGGCCAAAGCTGAGGAGACCTTCGAGAG 240
Db 550 TACTGTCCCGTGTCCGATTGGGACCTGTGGCCAAAGCTGAGGAGACCTTCGAGAG 609
QY 241 CTGGCGCTGTGTTGGTGTCCCAAGTTGGGGCAGAGTTCTTCAAGAGGCTCTGGAGAGG 300
Db 610 CTGGCGCTGTGTTGGTGTCCCAAGTTGGGGCAGAGTTCTTCAAGAGGCTCTGGAGAGG 669
QY 301 TCCCGGGGCC 310
Db 670 TCCCGGGGCC 679

RESULT 8

US-09-925-065A-729252
; Sequence 729252, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 729252
; LENGTH: 616
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-729252

Query Match 24.8%; Score 248; DB 13; Length 616;

Best Local Similarity 100.0%; Pred. No. 5.1e-62; Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACACAGTCACCTTCAGAGATTCACTTCTTAAGTAAGCAGAGTGGTCTCATCTGCC 60
Db 369 ACACAGTCACCTTCAGAGATTCACTTCTTAAGTAAGCAGAGTGGTCTCATCTGCC 428
QY 61 CAAGACCTCTCTGTGCTCCCTAATCTGACCTTTCCCACTCTCCCAAGTCCATGCC 120
Db 429 CAAGACCTCTCTGTGCTCCCTAATCTGACCTTTCCCACTCTCCCAAGTCCATGCC 488
QY 121 TTGAGAGCTTGGAGACCCCACTATTATTAAGCATGCGCGCTATGAAACACAAATTAGCCCC 180
Db 489 TTGAGAGCTTGGAGACCCCACTATTATTAAGCATGCGCGCTATGAAACACAAATTAGCCCC 548
QY 181 TACTGTCCCGTGTCCGATTGGGACCTGTGGCCAAAGCTGAGGAGACCTTCGAGAG 240
Db 549 TACTGTCCCGTGTCCGATTGGGACCTGTGGCCAAAGCTGAGGAGACCTTCGAGAG 608
QY 241 CTGGCGTT 248
Db 609 CTGGCGTT 616

RESULT 9

US-09-925-065A-83683
; Sequence 83683, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16

;; PRIOR APPLICATION NUMBER: US 60/289,846
;; PRIOR FILING DATE: 2001-05-09
;; NUMBER OF SEQ ID NOS: 957086
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 83683
;; LENGTH: 593
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-925-065A-83683

Query Match
Best Local Similarity 16.1%; Score 161.2; DB 13; Length 593;
Matches 187; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 772 TTCCTCTCCCTTCAGCTTGTGTTTATTTTAAAGACAGAACTCATCTGTAC 831
DB 50 TGTCTGCTCTCTTTTATTTTATTTTATTTTATTTTGAACAGAGTTTCACCTGTGC 109
QY 832 CCAGGCTGAGTGCAGTGGCCGACCTCGGCTCAGTGTAACTCTGCTTGGTTCAA 891
DB 110 CCAGGCTGAGTGCAGTGGCAGCTCAGCTCAGTAACTCTCATCTGGTTCAA 169
QY 892 CCGATTCTCTCTCTCAGCTCTCTGAGTGAATTAAGAGTCTCGGCACTACTCC 951
DB 170 GCGATTCTCTCTCAGCTCTCGAGTGGGATTTACAGGCGCCGACACGAGCC 229
QY 952 AGCTAATTTTATTTTGTAGATAGATGGGTTTTCACATGTTGGC 1001
DB 230 GCGTAAATTTTGTATTTTATTTTGTAGATAGATGGGATTTTCACATGTTGGC 279

RESULT 10
US-10-656-029-83/C
;; Sequence 83, Application US/10656029
;; Publication No. US20050003367A1
;; GENERAL INFORMATION:
;; APPLICANT: VERTEX PHARMACEUTICALS INC.
;; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR RAPID DEVELOPMENT OF
;; FILE REFERENCE: VPI/02-143W02
;; CURRENT APPLICATION NUMBER: US/10/656,029
;; PRIOR FILING DATE: 2003-09-05
;; PRIOR APPLICATION NUMBER: 60/408,297
;; PRIOR FILING DATE: 2002-09-05
;; NUMBER OF SEQ ID NOS: 86
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 83
;; LENGTH: 9131
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-656-029-83

Query Match
Best Local Similarity 16.1%; Score 161.2; DB 22; Length 9131;
Matches 187; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 772 TTCCTCTCTCCCTTCAGCTTGTGTTTATTTTAAAGACAGAACTCATCTGTAC 831
DB 5475 TGTCTGCTCTCTTTTATTTTATTTTATTTTATTTTGAACAGAGTTTCACCTGTGC 5416
QY 832 CCAGGCTGAGTGCAGTGGCCGACCTCGGCTCAGTGTAACTCTGCTTGGTTCAA 891
DB 5415 CCAGGCTGAGTGCAGTGGCAGCTCAGCTCAGTAACTCTCATCTGGTTCAA 5356
QY 892 CCGATTCTCTCTCAGCTCTCTGAGTGAATTAAGAGTCTCGGCACTACTCC 951
DB 5355 GCGATTCTCTCTCAGCTCTCGAGTGGGATTTACAGGCGCCGACACAGCC 5296
QY 952 AGCTAATTTTATTTTGTAGATAGATGGGTTTTCACATGTTGGC 1001
|||||

DB 5295 GCGTAAATTTTGTATTTTATTTTGTAGATAGATGGGATTTTCACATGTTGGC 5246

RESULT 11
US-10-656-029-85/C
;; Sequence 85, Application US/10656029
;; Publication No. US20050003367A1
;; GENERAL INFORMATION:
;; APPLICANT: VERTEX PHARMACEUTICALS INC.
;; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR RAPID DEVELOPMENT OF
;; FILE REFERENCE: VPI/02-143W02
;; CURRENT APPLICATION NUMBER: US/10/656,029
;; PRIOR FILING DATE: 2003-09-05
;; PRIOR APPLICATION NUMBER: 60/408,297
;; PRIOR FILING DATE: 2002-09-05
;; NUMBER OF SEQ ID NOS: 86
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 85
;; LENGTH: 10557
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-656-029-85

Query Match
Best Local Similarity 16.1%; Score 161.2; DB 22; Length 10557;
Matches 187; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 772 TTCCTCTCTCCCTTCAGCTTGTGTTTATTTTAAAGACAGAACTCATCTGTAC 831
DB 1891 TGTCTGCTCTCTTTTATTTTATTTTATTTTATTTTGAACAGAGTTTCACCTGTGC 1632
QY 832 CCAGGCTGAGTGCAGTGGCCGACCTCGGCTCAGTGTAACTCTGCTTGGTTCAA 891
DB 1831 CCAGGCTGAGTGCAGTGGCAGCTCAGCTCAGTAACTCTCATCTGGTTCAA 1772
QY 892 CCGATTCTCTCTCAGCTCTCTGAGTGAATTAAGAGTCTCGGCACTACTCC 951
DB 1771 GCGATTCTCTCTCAGCTCTCGAGTGGGATTTACAGGCGCCGACACAGCC 1712
QY 952 AGCTAATTTTATTTTGTAGATAGATGGGTTTTCACATGTTGGC 1001
DB 1711 GCGTAAATTTTGTATTTTATTTTGTAGATAGATGGGATTTTCACATGTTGGC 1662
|||||

RESULT 12
US-09-925-065A-83682
;; Sequence 83682, Application US/09925065A
;; Publication No. US20050228172A9
;; GENERAL INFORMATION:
;; APPLICANT: Wang, David G.
;; TITLE OF INVENTION: Identification and Mapping of Single
;; FILE REFERENCE: 108827.135
;; CURRENT APPLICATION NUMBER: US/09/925,065A
;; PRIOR FILING DATE: 2001-08-08
;; PRIOR APPLICATION NUMBER: US 60/243,096
;; PRIOR FILING DATE: 2000-10-24
;; PRIOR APPLICATION NUMBER: US 60/252,147
;; PRIOR FILING DATE: 2000-11-20
;; PRIOR APPLICATION NUMBER: US 60/250,092
;; PRIOR FILING DATE: 2000-11-30
;; PRIOR APPLICATION NUMBER: US 60/261,766
;; PRIOR FILING DATE: 2001-01-16
;; PRIOR APPLICATION NUMBER: US 60/289,846
;; PRIOR FILING DATE: 2001-05-09
;; NUMBER OF SEQ ID NOS: 957086
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 83682
;; LENGTH: 593
|||||

;
; LENGTH: 98716
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-600-17754

Query Match 15.6%; Score 156; DB 22; Length 98716;
Best Local Similarity 82.9%; Pred. No. 2.1e-34;
Matches 174; Conservative 3; Mismatches 33; Indels 0; Gaps 0;

```
QY 792 TTTGTTTTTTTTTTAAGACAGATCTCATCTGTCAACCCAGGCTGGAGTGCAGTGGC 851
    |||||
Db 75258 TTTGTTGTTTGTGTTGAGATGAGTTTCATTCTGTCAACCCAGGCTGGAGTGCAGTGGC 75317
    |||||
QY 852 CCGACCTCGGCTCACTGTAACTCTGCTTCTGGGTTCAACGATTCTCCTTCAGCC 911
    |||||
Db 75318 ACARCTCTCAGCTCACTCAACCTCTGCTTCTGGGTTCAAGTATCTCCTTCAGCC 75377
    |||||
QY 912 TCCTGAGTACTGGAATTACAGGTGCTCGGCACCTACTCCCAAGCTAAATTTTATATTTTGG 971
    |||||
Db 75378 TCCTGAGTACTGGAATTACAGGTGCTCGGCACCTACTCCCAAGCTAAATTTTATATTTTGG 75437
    |||||
QY 972 TAGATAGAGATGGGCTTTGCACATGTTGGC 1001
    |||||
Db 75438 TTGGTAGAGATGGGCTTTGCACATGTTGGC 75467
    |||||
```

Search completed: November 14, 2005, 20:03:41
Job time : 829.146 secs

;; CURRENT FILING DATE: 2000-04-14
;; PRIOR APPLICATION NUMBER: 60/241,755
;; PRIOR FILING DATE: 2000-10-20
;; PRIOR APPLICATION NUMBER: 60/237,768
;; PRIOR FILING DATE: 2000-10-03
;; PRIOR APPLICATION NUMBER: 60/231,498
;; PRIOR FILING DATE: 2000-09-08
;; NUMBER OF SEQ ID NOS: 207012
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 14385
;; LENGTH: 72602
;; TYPE: DNA
;; ORGANISM: Human
US-09-949-016-14385

Query Match 5.8%; Score 115.4; DB 4; Length 72602;
Best Local Similarity 73.3%; Pred. No. 3,9e-20;
Matches 162; Conservative 0; Mismatches 56; Indels 3; Gaps 1;

QY 239 CAACCTGGCAACATACGAGATATAAATTATTAATTAATGACGATGTGAGCC- 296
DB 35367 CAGCTGGGCAACATGCGCAAGAAAAATTTTATTAAGCAGATATGTGTCATGT 35426
QY 297 -CCGTGCTCTCCGCGCTGAGGCGCTGAGGCGCTCCACCAAGTCAGAGTTCA 355
DB 35427 ACCGTAGTCTTACCTGCTGAGGAGGCTGAGGAGATCTTGAAGTTCAGAGATTG 35486
QY 356 AGGATGAGTATGATCTCTCCACTGCTGAGAGCTGAGTGAAGAGAGAGAGCC 415
DB 35487 AGGCTGAGGAGATATGATCAGACCACTGCTCCAGCTGAGTGAAGAGAGATCC 35546
QY 416 TGGCTTAATTAATGAATACATAAAGTCTCAGACTAGTGG 456
DB 35547 TTCCTCAAAATATATAATAAAGGATGATAGTGG 35587

RESULT 6
US-09-949-016-32130/c
; Sequence 32130, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTNER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 32130
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-32130

Query Match 5.5%; Score 109.2; DB 4; Length 601;
Best Local Similarity 74.2%; Pred. No. 2e-19;
Matches 138; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 263 AAAAATATTAATTAATGAGATGAGTGGTACCCCTGTAGTCTCAGAGACTGAGAGGC 322
DB 384 AAAATTTTAAAAATTAAGCCAGGATGTGTGCTGTGCTCCAGCTACTCAGAGGC 325
QY 323 TGAAGCAGAGGCTCACCAGATGCAAGTTCAAGATGCAAGTATGATCTGCCA 382
DB 324 TGAAGCAGTATGATCATCTTGAAGTCAAGGCTGAGTATGATGATGTCGA 265

QY 383 CTCGACTGAAAGCTGGCTGACAGACAGACCCCTGCTTAATTAATGAATACATAAGT 442
DB 264 CTCGACTCAAGTCTAGGTGACTAGAAAACTTGTCTTTAAAAAAATTAATAA 205
QY 443 CTCACA 448
DB 204 TTAATA 199

RESULT 7
US-09-949-016-162086/c
; Sequence 162086, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTNER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 162086
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-162086

Query Match 5.5%; Score 109.2; DB 4; Length 601;
Best Local Similarity 74.2%; Pred. No. 2e-19;
Matches 138; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 263 AAAAATATTAATTAATGAGATGAGTGGTACCCCTGTAGTCTCAGAGACTGAGAGGC 322
DB 384 AAAATTTTAAAAATTAAGCCAGGATGTGTGCTGTGCTCCAGCTACTCAGAGGC 325
QY 323 TGAAGCAGAGGCTCACCAGATGCAAGTTCAAGATGCAAGTATGATCTGCCA 382
DB 324 TGAAGCAGTATGATCATCTTGAAGTCAAGGCTGAGTATGATGATGTCGA 265
QY 383 CTCGACTGAAAGCTGGCTGACAGACAGACCCCTGCTTAATTAATGAATACATAAGT 442
DB 264 CTCGACTCAAGTCTAGGTGACTAGAAAACTTGTCTTTAAAAAAATTAATAA 205
QY 443 CTCACA 448
DB 204 TTAATA 199

RESULT 8
US-09-949-016-12467/c
; Sequence 12467, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTNER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012

```
SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12467
; LENGTH: 79350
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...((79350))
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12467
```

```
Query Match      5.5%; Score 109.2; DB 4; Length 79350;
Best Local Similarity 74.2%; Pred. No. 1.9e-18;
Matches 138; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
```

```
QY 263 AAAATTTAATTAATAGCCAGATGTGGTGAAGCCCTGTAGTCTCAGCAGCTCAGAGGC 322
   |||||
DB 51310 AAAATTTAATTAATAGCCAGCAGATGTGCTGCTGATGCTCCAGCTACTCAGAGGC 51251

QY 323 TGAGGAGAGAGGCTCCAGAGTGCAGAGTTCAGAGTGAAGTATGATCCTGCGCA 382
   |||||
DB 51250 TGAGGAGAGAGTCTGATCTTGAGCCAGAGTTCAGAGTGAAGTATGATGCGCA 51191

QY 383 CTGCACTGAAGCTGGGTGACAGAGCAAGCCCTGGCTTAATTAATGAATCATTAAGT 442
   |||||
DB 51190 CTGCACTGAAGTCTAGTGTGAGTGAAGAAACCTTGTCTTAAAAAATTAATTAATA 51131

QY 443 CTCACA 448
   |||||
DB 51130 TTAATA 51125
```

```
RESULT 9
US-09-949-016-16275/c
```

```
; Sequence 16275, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16275
; LENGTH: 79351
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...((79351))
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-16275
```

```
Query Match      5.5%; Score 109.2; DB 4; Length 79351;
Best Local Similarity 74.2%; Pred. No. 1.9e-18;
Matches 138; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
```

```
QY 263 AAAATTTAATTAATAGCCAGATGTGGTGAAGCCCTGTAGTCTCAGCAGCTCAGAGGC 322
   |||||
DB 51310 AAAATTTAATTAATAGCCAGCAGATGTGCTGCTGATGCTCCAGCTACTCAGAGGC 51251

QY 323 TGAGGAGAGAGGCTCCAGAGTGCAGAGTTCAGAGTGAAGTATGATCCTGCGCA 382
   |||||
DB 51250 TGAGGAGAGAGTCTGATCTTGAGCCAGAGTTCAGAGTGAAGTATGATGCGCA 51191
```

```
QY 383 CTGCACTGAAGCTGGGTGACAGAGCAAGCCCTGGCTTAATTAATGAATCATTAAGT 442
   |||||
DB 51190 CTGCACTGAAGTCTAGTGTGAGTGAAGAAACCTTGTCTTAAAAAATTAATTAATA 51131

QY 443 CTCACA 448
   |||||
DB 51130 TTAATA 51125
```

```
RESULT 10
US-09-949-016-12722/c
```

```
; Sequence 12722, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12722
; LENGTH: 27630
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12722
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Query Match      5.2%; Score 103.4; DB 4; Length 27630;
Best Local Similarity 73.6%; Pred. No. 4.2e-17;
Matches 145; Conservative 0; Mismatches 51; Indels 1; Gaps 1;
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QY 249 AACATGCGAGATTAATAATTAATTAATAGCCAGATGTGGTGAAGCCCTGTAGTCTCA 308
   |||||
DB 9961 AACATCTTAATAAACAAGCTCTTTTAATTAATAGTGAAGTGTATGACGCGCTGATGCTTA 9902

QY 309 GCGACTCAGAGGCTGAGGAGCAGAGGCTCAGCAGAGTGC-AGAGTTCAAGATGCACTGA 367
   |||||
DB 9901 GCTACTCAGAGGCTGAGGAGTGAAGAGATGCTTAAGCCCAAGATTCAAGGCTGCACTGA 9842

QY 368 GCTATGATCTCTGCACTGCACTGAAAGCTGGGTGACAGAGCAAGCCCTGGCTTAATTA 427
   |||||
DB 9841 GCTATGATCATGCTCAGCTGCACTGCAAGCTGGGTGACAGAAACCCCTGCTCAATAATA 9782

QY 428 ATGAATACATTAAGTCT 444
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DB 9781 TGAAAAACATTAATTTT 9765
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RESULT 11
US-09-949-016-32131/c
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; Sequence 32131, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
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[illegible]

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Db      3061  CCAGCTATGCAGAGGCTGAGGAGGAACTTGAAGCCAGAAATCGAGGCTGCAG 3002
QY      365   TGAGCTATGATCTGCTGCACTGCACTGAAGCTGGGTGACAGAGCAAGACCCCTGCTAA 424
Db      3001  TGAGCCGTGATCATGCTCACTGCACTCCAGCTGGGTGACAGAGCAAGACTTGCCATAA 2942
QY      425   TAAATGATACATTAAGTCTCACAGCT 451
Db      2941  TAAATTAATTAATTAATGCTGCAGCT 2915
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RESULT 15
US-09-949-016-16153
; Sequence 16153, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16153
; LENGTH: 24070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16153
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Query Match      4.9%; Score 98.8; DB 4; Length 24070;
Best Local Similarity 77.0%; Pred. No. 6.9e-16;
Matches 134; Conservative 0; Mismatches 37; Indels 3; Gaps 1;
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QY      262  AAAAAATTATTAATTAGCCAGATGTGTAGCCC--CCTGTAGTCTCAGCGACTCAGG 318
Db      6435  AATATATAAAATTAATTAGTGTGTGTGGCCATGCGAGTGTCCAGTACTCAGG 6494
QY      319  AGGCTAGGAGAGGCTCACAGAGTGCAGAGTTCAGAGATCAGTATGATCCT 378
Db      6495  AGGCTAGGAGAGGAGTCTGGAACCAAGAGTTGAAGGCTGACAGTGAAGCCATGATCGT 6554
QY      379  GCCACTGCACTGAAGCTGGGTGACAGAGCAAGACCTGGCTCTAATAATGAA 432
Db      6555  GCTACTGCACTCCAGCTGGGTGACAGAGCAAGACTGTCTCAAAAAAAGAA 6608
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Search completed: November 10, 2005, 05:30:42
Job time : 334.172 secs

Result No.	Score	Query Match	length	DB	ID	Description
1	2000	100.0	16449	10	US-09-820-095-3	Sequence 3, Appl.1
2	1903.2	95.1	1938	14	US-10-027-633-98169	Sequence 98169, A
3	1903.2	95.1	1938	14	US-10-027-633-98170	Sequence 98170, A
4	1903.2	95.1	1938	18	US-10-027-633-98169	Sequence 98169, A
5	1902.2	95.1	1938	18	US-10-027-633-98170	Sequence 98170, A

PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 98169
LENGTH: 1938
TYPE: DNA
ORGANISM: Human
US-10-027-632-98169

Query Match 95.1%; Score 1902.2; DB 14; Length 1938;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1901; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTCCAGTCCATGGGTGCTGGTAGAGACAGGGGGATGATGTGAACCCCTGATGCG 60
DB TCTCCAGTCCATGGGTGCTGGTAGAGACAGGGGGATGATGTGAACCCCTGATGCG 95

QY 61 TATAGCCACTGCTCTCTCCCTGCTGCTGATCATCTAGGCTATTTTGTGCTTAG 120
DB TATAGCCACTGCTCTCTCCCTGCTGCTGATCATCTAGGCTATTTTGTGCTTAG 155

QY 121 AAGACTGCTTCTGATCTCTTGAACA CTGCGCGCATATGACATTAAGAAACATGCA 180
DB AAGACTGCTTCTGATCTCTTGAACA CTGCGCGCATATGACATTAAGAAACATGCA 215

QY 156 AAGACTGCTTCTGATCTCTTGAACA CTGCGCGCATATGACATTAAGAAACATGCA 215
DB AAGACTGCTTCTGATCTCTTGAACA CTGCGCGCATATGACATTAAGAAACATGCA 240

QY 181 GGTGAAGCAACGCAATCTTTCTTAAAGTCATAGAGCTGTCAAAAGAAAGCTGACA 240
DB GGTGAAGCAACGCAATCTTTCTTAAAGTCATAGAGCTGTCAAAAGAAAGCTGACA 275

QY 216 GGTGAAGCAACGCAATCTTTCTTAAAGTCATAGAGCTGTCAAAAGAAAGCTGACA 275
DB GGTGAAGCAACGCAATCTTTCTTAAAGTCATAGAGCTGTCAAAAGAAAGCTGACA 300

QY 241 ACCTGGGCAACATGCGAGATTAATAATTATTAATTAAGCAGATGTGTAAGCCCTG 300
DB ACCTGGGCAACATGCGAGATTAATAATTATTAATTAAGCAGATGTGTAAGCCCTG 335

QY 276 ACCTGGGCAACATGCGAGATTAATAATTATTAATTAAGCAGATGTGTAAGCCCTG 335
DB ACCTGGGCAACATGCGAGATTAATAATTATTAATTAAGCAGATGTGTAAGCCCTG 360

QY 301 TAGCTCAGGAGCTCAGAGGCTGAGGAGGAGGCTCAGAGAGTGAAGCTTCAAGAT 360
DB TAGCTCAGGAGCTCAGAGGCTGAGGAGGAGGCTCAGAGAGTGAAGCTTCAAGAT 395

QY 336 TAGCTCAGGAGCTCAGAGGCTGAGGAGGAGGCTCAGAGAGTGAAGCTTCAAGAT 395
DB TAGCTCAGGAGCTCAGAGGCTGAGGAGGAGGCTCAGAGAGTGAAGCTTCAAGAT 420

QY 361 GCAAGTATGATCTCTGCACTGCACTGAAGCTGGTGAAGCAAGCAAGACCTGGCT 420
DB GCAAGTATGATCTCTGCACTGCACTGAAGCTGGTGAAGCAAGCAAGACCTGGCT 455

QY 396 GCAAGTATGATCTCTGCACTGCACTGAAGCTGGTGAAGCAAGCAAGACCTGGCT 455
DB GCAAGTATGATCTCTGCACTGCACTGAAGCTGGTGAAGCAAGCAAGACCTGGCT 480

QY 421 CTAATAAATGAATCATTAAGTCTCAGAGTATGATGATCTGCGCAGAGTCAAGC 480
DB CTAATAAATGAATCATTAAGTCTCAGAGTATGATGATCTGCGCAGAGTCAAGC 515

QY 456 CTAATAAATGAATCATTAAGTCTCAGAGTATGATGATCTGCGCAGAGTCAAGC 515
DB CTAATAAATGAATCATTAAGTCTCAGAGTATGATGATCTGCGCAGAGTCAAGC 540

QY 481 CTCTACTGCTGATGACAAATGACACATATGCTTTTAACTGATTTGACAGCAACAA 540
DB CTCTACTGCTGATGACAAATGACACATATGCTTTTAACTGATTTGACAGCAACAA 575

QY 516 CTCTACTGCTGATGACAAATGACACATATGCTTTTAACTGATTTGACAGCAACAA 575
DB CTCTACTGCTGATGACAAATGACACATATGCTTTTAACTGATTTGACAGCAACAA 600

QY 541 TGTATGTAATATTTTCCCGAGGAAACACGGAAGTATTTTAATTTCTATACATCC 600
DB TGTATGTAATATTTTCCCGAGGAAACACGGAAGTATTTTAATTTCTATACATCC 635

QY 576 TGTATGTAATATTTTCCCGAGGAAACACGGAAGTATTTTAATTTCTATACATCC 635
DB TGTATGTAATATTTTCCCGAGGAAACACGGAAGTATTTTAATTTCTATACATCC 660

QY 601 ATTATATTAATTTTCTGATGATGAGGAAACACGAGCTGATTTGCAATTTCAAGGCGG 660
DB ATTATATTAATTTTCTGATGATGAGGAAACACGAGCTGATTTGCAATTTCAAGGCGG 695

QY 636 ATTATATTAATTTTCTGATGATGAGGAAACACGAGCTGATTTGCAATTTCAAGGCGG 695
DB ATTATATTAATTTTCTGATGATGAGGAAACACGAGCTGATTTGCAATTTCAAGGCGG 720

QY 661 ACAGCCCTTGTGATGATGATGAGGAAACACGAGCTGATTTGCAATTTCAAGGCGGCT 720
DB ACAGCCCTTGTGATGATGATGAGGAAACACGAGCTGATTTGCAATTTCAAGGCGGCT 755

QY 696 ACAGCCCTTGTGATGATGATGAGGAAACACGAGCTGATTTGCAATTTCAAGGCGGCT 755
DB ACAGCCCTTGTGATGATGATGAGGAAACACGAGCTGATTTGCAATTTCAAGGCGGCT 780

QY 721 TCTCATGTAAGTCTCTGATGCGCGCAGAGCGCCGAGAGAGAGGAGGCGGCTGAGA 780

DB TCTCATGTAAGTCTCTGATGCGCGCAGAGCGCCGAGAGAGAGGAGGCGGCTGAGA 815

QY 756 TCTCATGTAAGTCTCTGATGCGCGCAGAGCGCCGAGAGAGAGGAGGCGGCTGAGA 815
DB TCTCATGTAAGTCTCTGATGCGCGCAGAGCGCCGAGAGAGAGGAGGCGGCTGAGA 840

QY 781 CGCCCCGAGAGGCTACCTGCTGCTGAGACAGAGTCTCTGCTCTCTGCGGCGCC 840
DB CGCCCCGAGAGGCTACCTGCTGCTGAGACAGAGTCTCTGCTCTCTGCGGCGCC 875

QY 816 CGCCCCGAGAGGCTACCTGCTGCTGAGACAGAGTCTCTGCTCTCTGCGGCGCC 875
DB CGCCCCGAGAGGCTACCTGCTGCTGAGACAGAGTCTCTGCTCTCTGCGGCGCC 900

QY 841 AGCCCACTCCCAACACCCCTGCGGAGAGACCCCAAGAGGAGAGACGAGGCTGAGCC 900
DB AGCCCACTCCCAACACCCCTGCGGAGAGACCCCAAGAGGAGAGACGAGGCTGAGCC 935

QY 876 AGCCCACTCCCAACACCCCTGCGGAGAGACCCCAAGAGGAGAGACGAGGCTGAGCC 935
DB AGCCCACTCCCAACACCCCTGCGGAGAGACCCCAAGAGGAGAGACGAGGCTGAGCC 960

QY 901 CTGCGCGAGACCTTCCGCTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCT 960
DB CTGCGCGAGACCTTCCGCTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCT 995

QY 936 CTGCGCGAGACCTTCCGCTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCT 995
DB CTGCGCGAGACCTTCCGCTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCT 1020

QY 961 GCTTCCGAGACCCCTGAGAAAGCTCCAGAGCGCGCTGCTCTCTCTGCTTTTGA 1020
DB GCTTCCGAGACCCCTGAGAAAGCTCCAGAGCGCGCTGCTCTCTCTGCTTTTGA 1055

QY 996 GCTTCCGAGACCCCTGAGAAAGCTCCAGAGCGCGCTGCTCTCTCTCTGCTTTTGA 1055
DB GCTTCCGAGACCCCTGAGAAAGCTCCAGAGCGCGCTGCTCTCTCTCTGCTTTTGA 1080

QY 1021 TCTCCCGAGACCTTCCGCTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCT 1080
DB TCTCCCGAGACCTTCCGCTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCT 1115

QY 1056 TCTCCCGAGACCTTCCGCTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCT 1115
DB TCTCCCGAGACCTTCCGCTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCT 1140

QY 1081 CTGAGCGAGACCGCTTGGCGCTCATTAGACGCGACCGGAGATGAGGCGAGTGC 1140
DB CTGAGCGAGACCGCTTGGCGCTCATTAGACGCGACCGGAGATGAGGCGAGTGC 1175

QY 1116 CTGAGCGAGACCGCTTGGCGCTCATTAGACGCGACCGGAGATGAGGCGAGTGC 1175
DB CTGAGCGAGACCGCTTGGCGCTCATTAGACGCGACCGGAGATGAGGCGAGTGC 1200

QY 1141 TGGGCTGCGCTGACCAATGAGTGTGCTCCATGATGATGATGATGATGATGATGAT 1200
DB TGGGCTGCGCTGACCAATGAGTGTGCTCCATGATGATGATGATGATGATGATGAT 1235

QY 1176 TGGGCTGCGCTGACCAATGAGTGTGCTCCATGATGATGATGATGATGATGATGAT 1235
DB TGGGCTGCGCTGACCAATGAGTGTGCTCCATGATGATGATGATGATGATGATGAT 1260

QY 1201 GCGAGCGGCTCCCGCGGAGGCTGCGCGGCAACCGAGCTGATGATGATGATGATGAT 1260
DB GCGAGCGGCTCCCGCGGAGGCTGCGCGGCAACCGAGCTGATGATGATGATGATGAT 1295

QY 1236 GCGAGCGGCTCCCGCGGAGGCTGCGCGGCAACCGAGCTGATGATGATGATGATGAT 1295
DB GCGAGCGGCTCCCGCGGAGGCTGCGCGGCAACCGAGCTGATGATGATGATGATGAT 1320

QY 1261 CCGTGGCTCTCTGCGCTGAGGCTCTCTGCGCTGAGAGATTAACCTGACGCGCAGG 1320
DB CCGTGGCTCTCTGCGCTGAGGCTCTCTGCGCTGAGAGATTAACCTGACGCGCAGG 1355

QY 1296 CCGTGGCTCTCTGCGCTGAGGCTCTCTGCGCTGAGAGATTAACCTGACGCGCAGG 1355
DB CCGTGGCTCTCTGCGCTGAGGCTCTCTGCGCTGAGAGATTAACCTGACGCGCAGG 1380

QY 1321 TATGACTGGGCTGAGGCGCTTGTGGGATCTCTGCTCTCTGAGGCGCTTCAAGAT 1380
DB TATGACTGGGCTGAGGCGCTTGTGGGATCTCTGCTCTCTGAGGCGCTTCAAGAT 1415

QY 1356 TATGACTGGGCTGAGGCGCTTGTGGGATCTCTGCTCTCTGAGGCGCTTCAAGAT 1415
DB TATGACTGGGCTGAGGCGCTTGTGGGATCTCTGCTCTCTGAGGCGCTTCAAGAT 1440

QY 1381 GCGCGCGCTTCTGAGGCTGAGGAGACGCGCTGAGGAGGCTGAGGAGGCTGAGGAG 1440
DB GCGCGCGCTTCTGAGGCTGAGGAGACGCGCTGAGGAGGCTGAGGAGGCTGAGGAG 1475

QY 1416 GCGCGCGCTTCTGAGGCTGAGGAGACGCGCTGAGGAGGCTGAGGAGGCTGAGGAG 1475
DB GCGCGCGCTTCTGAGGCTGAGGAGACGCGCTGAGGAGGCTGAGGAGGCTGAGGAG 1500

QY 1441 CACTGGGAGAGTGGCGGCGGAGCTTCTGAGAGGCGCTGAGGAGGCTTCTGAGAGG 1500
DB CACTGGGAGAGTGGCGGCGGAGCTTCTGAGAGGCGCTGAGGAGGCTTCTGAGAGG 1535

QY 1476 CACTGGGAGAGTGGCGGCGGAGCTTCTGAGAGGCGCTGAGGAGGCTTCTGAGAGG 1535
DB CACTGGGAGAGTGGCGGCGGAGCTTCTGAGAGGCGCTGAGGAGGCTTCTGAGAGG 1560

QY 1501 GTCACCTCTCACTCTGCTGCTTCTGATTAATCTGATGATGATGATGATGATGAT 1560
DB GTCACCTCTCACTCTGCTGCTTCTGATTAATCTGATGATGATGATGATGATGAT 1595

QY 1536 GTCACCTCTCACTCTGCTGCTTCTGATTAATCTGATGATGATGATGATGATGAT 1595
DB GTCACCTCTCACTCTGCTGCTTCTGATTAATCTGATGATGATGATGATGATGAT 1620

QY 1561 CTCCTGAGACAGGAACTTCAATCCCATCTTCTGCTGCTGCTGCTGCTGCTGCTGCT 1620
DB CTCCTGAGACAGGAACTTCAATCCCATCTTCTGCTGCTGCTGCTGCTGCTGCTGCT 1655

QY 1596 CTCCTGAGACAGGAACTTCAATCCCATCTTCTGCTGCTGCTGCTGCTGCTGCTGCT 1655
DB CTCCTGAGACAGGAACTTCAATCCCATCTTCTGCTGCTGCTGCTGCTGCTGCTGCT 1680

QY 1621 CAAGGCTGAGCTTGAAGTCACTTCTTCCGGAAGCTTCTCAACACCCCTGCGGCTG 1680
DB CAAGGCTGAGCTTGAAGTCACTTCTTCCGGAAGCTTCTCAACACCCCTGCGGCTG 1715

QY 1656 CAAGGCTGAGCTTGAAGTCACTTCTTCCGGAAGCTTCTCAACACCCCTGCGGCTG 1715
DB CAAGGCTGAGCTTGAAGTCACTTCTTCCGGAAGCTTCTCAACACCCCTGCGGCTG 1740

QY 1681 CTGCTGCTGCTTCAAGGCTTCTTCTTCAACAGCTGATTAACAGCTGCTGCTTCAAG 1740
DB CTGCTGCTGCTTCAAGGCTTCTTCTTCAACAGCTGATTAACAGCTGCTGCTTCAAG 1775

QY 1716 CTGCTGCTGCTTCAAGGCTTCTTCTTCAACAGCTGATTAACAGCTGCTGCTTCAAG 1775
DB CTGCTGCTGCTTCAAGGCTTCTTCTTCAACAGCTGATTAACAGCTGCTGCTTCAAG 1800

QY 1741 CCGACACCTTCACTCCACCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1800
DB CCGACACCTTCACTCCACCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1835

QY 1776 CCGACACCTTCACTCCACCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1835
DB CCGACACCTTCACTCCACCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1860

QY 1801 TGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1860

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Db      1836 TGTCTCTGTGTGCGAGGCCGACGAAAGGAAATGTAGGAGGGGTGAGGCTGACAGGCA 1895
QY      1861 GGTGGATTAGGGGTTGAGGGCTGAGGTGTGTGAGGCTGATCT 1903
Db      1896 GCTGGATTAGGGGTTGAGGGCTGAGGTGTGTGAGGCTGATCT 1938

RESULT 3
US-10-027-632-98170
; Sequence 98170, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027, 632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218, 006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198, 676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193, 483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185, 218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167, 363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156, 358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146, 002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 98170
; LENGTH: 1938
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-98170

Query Match      95.1%; Score 1902.2; DB 14; Length 1938;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1901; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCTCCAGTTCATGAGTGGCTGCTGCTAGAGAGACAGGGGGATGATGTGAACCCCTGCATGGC 60
Db      36 TCTCCAAGTCATGAGTGGCTGCTGCTAGAGAGACAGGGGGATGATGTGAACCCCTGCATGGC 95
QY      61 TATAGCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db      96 TATAGCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 155
QY      121 AAGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
Db      156 AAGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 215
QY      181 GGCTAAGGCAAGCAATCTTTTCTTAAAGTCATACAGCTGCAAAAGAAAGCTGAGCA 240
Db      216 GGCTAAGGCAAGCAATCTTTTCTTAAAGTCATACAGCTGCAAAAGAAAGCTGAGCA 275
QY      241 ACCTGGGCAACATAGCGAGATATAAATTTAATTAATTAAGCCAGATGTGGTACCCCTG 300
Db      276 ACCTGGGCAACATAGCGAGATATAAATTTAATTAATTAAGCCAGATGTGGTACCCCTG 335
QY      301 TAGTCTCAGGCACTCAGAGGCTGAGGCAAGAGGCTCACCAGATGCAAGATTCAAGAT 360
Db      336 TAGTCTCAGGCACTCAGAGGCTGAGGCAAGAGGCTCACCAGATGCAAGATTCAAGAT 395
QY      361 GCAGTGAGCTATGATCTCTGCACTGCACTGAAAGCTGGGTGACAGAGCAAGACCTGGCT 420
Db      396 GCAGTGAGCTATGATCTCTGCACTGCACTGAAAGCTGGGTGACAGAGCAAGACCTGGCT 455
QY      421 CTAAATAAATGAATACATAAAGTCTCACAGCTAGTGTAGCTAATCTCTGCAGAGTCAGG 480
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Db      456 CTAAATAAATGAATACATAAAGTCTCACAGCTAGTGTAGCTAATCTCTGCAGAGTCAGG 515
QY      481 CTCTACCTGCTGATGAGCAAAATGGCACTATGCTTTTAACTGATTTGACAGCCACAA 540
Db      516 CTCTACCTGCTGATGAGCAAAATGGCACTATGCTTTTAACTGATTTGACAGCCACAA 575
QY      541 TGTTTTGTAAATATTTTCCCGAGGAAAAACCGAATGATTTCTTAATTTATACATCC 600
Db      576 TGTTTTGTAAATATTTTCCCGAGGAAAAACCGAATGATTTCTTAATTTATACATCC 635
QY      601 ATTATATTTAGTTTACCTGTGATTTGGAAAACCAAGCTCTGATTGCAATTCAGGCGGG 660
Db      636 ATTATATTTAGTTTACCTGTGATTTGGAAAACCAAGCTCTGATTGCAATTCAGGCGGG 695
QY      661 ACAGCCTTTGGTGAATGCTGCTGCGGAGATTTTCAATTTAACTCTCTAGAGGCGCT 720
Db      696 ACAGCCTTTGGTGAATGCTGCTGCGGAGATTTTCAATTTAACTCTCTAGAGGCGCT 755
QY      721 TCTCATGTAAAGTTTCTGATCCGCGCAGAGCGCGCAGAGAGGACAGGGGCTGGAGA 780
Db      756 TCTCATGTAAAGTTTCTGATCCGCGCAGAGCGCGCAGAGAGGACAGGGGCTGGAGA 815
QY      781 CGCCCGCAGAGGCTACGTGCTTGTGGAAGAGTCTCTGCTCTCTGCGGCGGCT 840
Db      816 CGCCCGCAGAGGCTACGTGCTTGTGGAAGAGTCTCTGCTCTCTGCGGCGGCT 875
QY      841 AGCCCACTCCCAACAAACCCCTGCGGAGAAAGCCCAAGAGGAGAGAGGCGCTGCGCC 900
Db      876 AGCCCACTCCCAACAAACCCCTGCGGAGAAAGCCCAAGAGGAGAGAGGCGCTGCGCC 935
QY      901 CTGCCCCGAGCACTTCCCTCTAGTGTGAGTCTGAATTCGAGCTTGGGACCTGCTTG 960
Db      936 CTGCCCCGAGCACTTCCCTCTAGTGTGAGTCTGAATTCGAGCTTGGGACCTGCTTG 995
QY      961 GCTTGGGGAGCCCTGCAAGAGCTCCACAGGCGCGCTGCTCTCTGCTGCTTTTA 1020
Db      996 GCTTGGGGAGCCCTGCAAGAGCTCCACAGGCGCGCTGCTCTCTGCTGCTTTTA 1055
QY      1021 TCTTCCCGACACTCTGCGAGAGAACCGGTCATGTTAGGCGCCCTTTCGAGCTCGAGAC 1080
Db      1056 TCTTCCCGACACTCTGCGAGAGAACCGGTCATGTTAGGCGCCCTTTCGAGCTCGAGAC 1115
QY      1081 CTGAGCGGAGACCGCTTGGCCCTCACTTAAGCGCAGCCCGGAGATGTGGCGGAGTC 1140
Db      1116 CTGAGCGGAGACCGCTTGGCCCTCACTTAAGCGCAGCCCGGAGATGTGGCGGAGTC 1175
QY      1141 TGGGCTGGCTGACCAATGAGTGTGGCTCATGACTGAGCTGACGCAAGCAATTA 1200
Db      1176 TGGGCTGGCTGACCAATGAGTGTGGCTCATGACTGAGCTGACGCAAGCAATTA 1235
QY      1201 GCGAGCGGCTCCCCCGGCGGCGTCCCGCGGCAACCAATGCTGTGAAGTTGCCGTGA 1260
Db      1236 GCGAGCGGCTCCCCCGGCGGCGTCCCGCGGCAACCAATGCTGTGAAGTTGCCGTGA 1295
QY      1261 CCGTGGCTCTCTGCGAGGCTCCTGCTGAGAGATTAACATGACGCGCAAGGCG 1320
Db      1296 CCGTGGCTCTCTGCGAGGCTCCTGCTGAGAGATTAACATGACGCGCAAGGCG 1355
QY      1321 TATGCACTGGGCTGGGCGCTTGTGGGCACTCTCTGCTCTTAAGGGGTTCCAGCAT 1380
Db      1356 TATGCACTGGGCTGGGCGCTTGTGGGCACTCTCTGCTCTTAAGGGGTTCCAGCAT 1415
QY      1381 CGCCCCCTTTTGTGTGACTGAGAAACAGCGCTGACTCCAGAGACTGTGTTCCTCAGTG 1440
Db      1416 CGCCCCCTTTTGTGTGACTGAGAAACAGCGCTGACTCCAGAGACTGTGTTCCTCAGTG 1475
QY      1441 CACTGGGAAAGGTGGCGGGGAGCTTTTCAAGAGGCTGGGGAATTCGAGAGCCAG 1500
Db      1476 CACTGGGAAAGGTGGCGGGGAGCTTTTCAAGAGGCTGGGGAATTCGAGAGCCAG 1535
QY      1501 GTTACCCTTCACTGTGCTCTTAACTTTCATGCTGTGCTTTTGTGATACGCTG 1560
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Db 1536 GTCACCTCTCACTGTGCTCTTAATTCCTGACAGCTGCTTGTGATACGCTG 1595
Qy 1561 CTCCTCTCACAGGAACTTCATCCCATCTTTGTCTGTGAACTTCAGAAATCTG 1620
Db 1596 CTCCTCTCACAGGAACTTCATCCCATCTTTGTCTGTGAACTTCAGAAATCTG 1655
Qy 1621 CAAGGGTCAGCTTGAAGGTCACTTCTCCGAAAGCTTCTCAACACCTTCCCGCTG 1680
Db 1656 CAAGGGTCAGCTTGAAGGTCACTTCTCCGAAAGCTTCTCAACACCTTCCCGCTG 1715
Qy 1681 CTGTGTGCTGCTTGAAGGGCTTCTCTCAACAGCTTGAATACAGCTTCTTCACTT 1740
Db 1716 CTGTGTGCTGCTTGAAGGGCTTCTCTCAACAGCTTGAATACAGCTTCTTCACTT 1775
Qy 1741 CCCACCACTCTCACTTCCACCCAGAAAGTGAAGGCGCAGAGGCGAGAGCTGTGCG 1800
Db 1776 CCCACCACTCTCACTTCCACCCAGAAAGTGAAGGCGCAGAGGCGAGAGCTGTGCG 1835
Qy 1801 TGTTCCTGTGTGCGAGGGCCCAAGAAAGGATGTAGGAGGTGGAGGTGCGAGGCA 1860
Db 1836 TGTTCCTGTGTGCGAGGGCCCAAGAAAGGATGTAGGAGGTGGAGGTGCGAGGCA 1895
Qy 1861 GCTGGATTAGGGGCTTGAAGGGCTTGTGAGGCTGATCT 1903
Db 1896 GCTGGATTAGGGGCTTGAAGGGCTTGTGAGGCTGATCT 1938

RESULT 4

US-10-027-632-98169
; Sequence 98169, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Many, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 98169
; LENGTH: 1938
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-98169

Query Match 95.1%; Score 1902.2; DB 18; Length 1938;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1901; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTTCAAGTCATGAGGCTGCTGTAGAGACAGGGGATGAATGTGAACCCCTGATGGC 60
Db 36 TCTTCAAGTCATGAGGCTGCTGTAGAGACAGGGGATGAATGTGAACCCCTGATGGC 95
Qy 61 TATAGCAACGCTCTCTCCCTGCTGATGATCACTGCTGCTATTTTGTGCTTAG 120
Db 96 TATAGCAACGCTCTCTCTCCCTGCTGATGATCACTGCTGCTATTTTGTGCTTAG 155
Qy 121 AAGCACTGCTTCTATGCTCTCTTAGAGACCACTGCCCATATGACAGATAAGAACATCGA 180

Db 156 AAGCACTGCTTCTATGCTCTCTTAGAGACCACTGCCCATATGACAGATAAGAACATCGA 215
Qy 181 GGTAAAGGCAACGAAATCTTTTCTTAAGTCAATAGCTGTGTAAAGAAAGCTGTGACA 240
Db 216 GGTAAAGGCAACGAAATCTTTTCTTAAGTCAATAGCTGTGTAAAGAAAGCTGTGACA 275
Qy 241 ACCTGGGCAACATAGGAGATTAATAAATTAATTAATAGCAGATGTGTAGCCCTTG 300
Db 276 ACCTGGGCAACATAGGAGATTAATAAATTAATTAATAGCAGATGTGTAGCCCTTG 335
Qy 301 TAGTCTAGGAGCTCAGAGGCTGAGGACAGAGGCTCACCAGATGCGAGATTCAGAT 360
Db 336 TAGTCTAGGAGCTCAGAGGCTGAGGACAGAGGCTCACCAGATGCGAGATTCAGAT 395
Qy 361 GCAATGAGCTATGATCTGTGCACTGTGCACTGAAAGCTGGGTGACAGAGCAACCTTGGT 420
Db 396 GCAATGAGCTATGATCTGTGCACTGTGCACTGAAAGCTGGGTGACAGAGCAACCTTGGT 455
Qy 421 CTAAATAAGTAAATACATTAAGTCTCACAGCTAGGTGATTAATCTGCGAGAGTCAAGC 480
Db 456 CTAAATAAGTAAATACATTAAGTCTCACAGCTAGGTGATTAATCTGCGAGAGTCAAGC 515
Qy 481 CTCTACCTGTCTGATGACAAATGCGACACTATGTCTTTAACTGATGACAGACCAAAA 540
Db 516 CTCTACCTGTCTGATGACAAATGCGACACTATGTCTTTAACTGATGACAGACCAAAA 575
Qy 541 TGTTCCTGTGAATATTTTCCCGAGGAAAAAACCAGAAAGTGTCTTAATTCATATATCC 600
Db 576 TGTTCCTGTGAATATTTTCCCGAGGAAAAAACCAGAAAGTGTCTTAATTCATATATCC 635
Qy 601 ATTATATTATTTTAACTGTGATGATTTGGGAAACCCAGCTGATTTGATTTCAAGGGGG 660
Db 636 ATTATATTATTTTAACTGTGATGATTTGGGAAACCCAGCTGATTTGATTTCAAGGGGG 695
Qy 661 ACAAGCTTTGTGCTGCTGTGCGGGATTTTCCATTTTAACCTCTTCAAGAGCCCT 720
Db 696 ACAAGCTTTGTGCTGCTGTGCGGGATTTTCCATTTTAACCTCTTCAAGAGCCCT 755
Qy 721 TCTCATGTGAATGTTCTGATGTCGCCCGCAGAGCGCCGAGAGAGGCGGCTGTGAGA 780
Db 756 TCTCATGTGAATGTTCTGATGTCGCCCGCAGAGCGCCGAGAGAGGCGGCTGTGAGA 815
Qy 781 CGCCCGCAGAGGGCTAGTGGCTGTGAGACAGAGGTCTCTGCTCTCGGGGGGCC 840
Db 816 CGCCCGCAGAGGGCTAGTGGCTGTGAGACAGAGGTCTCTGCTCTCGGGGGGCC 875
Qy 841 AGCCCACTTCCCAAAACCCCTGCGGAGAAAGCCCCAAAGGGGAGAGACCGGCTGTGCC 900
Db 876 AGCCCACTTCCCAAAACCCCTGCGGAGAAAGCCCCAAAGGGGAGAGACCGGCTGTGCC 935
Qy 901 CTGCCCCGAGCACTTCTGCTGTCTAGTGGAGTGTGAATCGGCTTTGGACCTGCTTG 960
Db 936 CTGCCCCGAGCACTTCTGCTGTCTAGTGGAGTGTGAATCGGCTTTGGACCTGCTTG 995
Qy 961 GCTTCGGGGAGCCCTGCAAGAGTCCACAGCGCGCTGCTCTTCTCTCTGCTTTTA 1020
Db 996 GCTTCGGGGAGCCCTGCAAGAGTCCACAGCGCGCTGCTCTTCTCTCTGCTTTTA 1055
Qy 1021 TCTTCCCAAGCTCTGCGAGAAACGCTCATGTTAAGCCCTTTGCGAGCTCAGACC 1080
Db 1056 TCTTCCCAAGCTCTGCGAGAAACGCTCATGTTAAGCCCTTTGCGAGCTCAGACC 1115
Qy 1081 CTGAGCGGAGACCGCTTGGCGCTCACTTAGAGCGGACCCGGAGATGTGGCGGAGTC 1140
Db 1116 CTGAGCGGAGACCGCTTGGCGCTCACTTAGAGCGGACCCGGAGATGTGGCGGAGTC 1175
Qy 1141 TGGGGCTGGCTACCAATGAGTGTGGGCTCCATGACACTGGGGTGTGCCAGGCAATTA 1200
Db 1176 TGGGGCTGGCTACCAATGAGTGTGGGCTCCATGACACTGGGGTGTGCCAGGCAATTA 1235
Qy 1201 GCGAGCGCTTCCCGCGGGGCTGCGCCCGCAACCAAGTGTGTAGATTGCGGTAGAAA 1260


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Db 1236 GCGACGCGCTCCCGCGGCGGTGCGCCCGGCAACCAAGTGTAGTTCGCTGAGAAA 1295
Qy 1261 CCGTGGCTCTCTGCGCTGAGGCTCTGCGCTGAGAGATTAATGCAAGCCGCAAGG 1320
Db 1296 CCGTGGCTCTCTGCGCTGAGGCTCTGCGCTGAGAGATTAATGCAAGCCGCAAGG 1355
Qy 1321 TATGCACTGGGCTGGGCGGCTTGTGGGCACTCTCCCTGCTTCTAAGGGGTTCAAGCAT 1380
Db 1356 TATGCACTGGGCTGGGCGGCTTGTGGGCACTCTCCCTGCTTCTAAGGGGTTCAAGCAT 1415
Qy 1381 CGGCGGCTTGTGGGCACTCTCCCTGCTTCTAAGGGGTTCAAGCAT 1440
Db 1416 CGGCGGCTTGTGGGCACTCTCCCTGCTTCTAAGGGGTTCAAGCAT 1475
Qy 1441 CACTGGGAAGTGGGCGGCGGAGCTTTTTCAGAGGGGCTGGGAACTTTCAGAGCCAG 1500
Db 1476 CACTGGGAAGTGGGCGGCGGAGCTTTTTCAGAGGGGCTGGGAACTTTCAGAGCCAG 1535
Qy 1501 GTACACCTCTCACTGTGTCTTCTTATCTTTCATCTGCTGTGTCTTTCATAGCTG 1560
Db 1536 GTACACCTCTCACTGTGTCTTCTTATCTTTCATCTGCTGTGTCTTTCATAGCTG 1595
Qy 1561 CTCCCTGCAACGAGAACCTCCATCTTGTCTGTGTGTGCAAGCTTCAAGAAATCTG 1620
Db 1596 CTCCCTGCAACGAGAACCTCCATCTTGTCTGTGTGTGCAAGCTTCAAGAAATCTG 1655
Qy 1621 CAAGGCTCAGCTTAGAGTCACTTCTTCCGGAAGCTTCTCAACACCCCTCCCGGCTG 1680
Db 1656 CAAGGCTCAGCTTAGAGTCACTTCTTCCGGAAGCTTCTCAACACCCCTCCCGGCTG 1715
Qy 1681 CTGCTGTGCTCTCAGGCTCTCTCTCAAGCACTGATTAACAGCTGTCCGTCTCAACCT 1740
Db 1716 CTGCTGTGCTCTCAGGCTCTCTCTCAAGCACTGATTAACAGCTGTCCGTCTCAACCT 1775
Qy 1741 CCCACCACTCCACTCCCAACCCCGAGGAAGTGAAGGCGGAGGAGCAAGCACTCTCTG 1800
Db 1776 CCCACCACTCCACTCCCAACCCCGAGGAAGTGAAGGCGGAGGAGCAAGCACTCTCTG 1835
Qy 1801 TGTTCCTGTGTGTCAGAGGCGGCAAGGAATGTAGAGGAGTGGAGGTCAGAGGCA 1860
Db 1836 TGTTCCTGTGTGTCAGAGGCGGCAAGGAATGTAGAGGAGTGGAGGTCAGAGGCA 1895
Qy 1861 GCTGGATTAAGGGGTTGAGGGCTGGGTTTGAAGGCTGATCT 1903
Db 1896 GCTGGATTAAGGGGTTGAGGGCTGGGTTTGAAGGCTGATCT 1938

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RESULT 5

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US-10-027-632-98170
; Sequence 98170, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE OF INVENTION: Polymorphisms in the Human Genome
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 98170
; LENGTH: 1938
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-98170

Query Match      95.1%; Score 1902.2; DB 18; Length 1938;
Best local Similarity 99.9%; Pred. No. 0;
Matches 1901; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCAGTTCATGGTGGCTGTAGAGACAGGGGATGATTTGAACCTTCATGGC 60
Db 36 TCTCCAGTTCATGGTGGCTGTAGAGACAGGGGATGATTTGAACCTTCATGGC 95
Qy 61 TATAGCACCTGCTCTCCCGGCGGCTGATCACTACCTGGCTTATTTTGGCTCTAG 120
Db 96 TATAGCACCTGCTCTCCCGGCGGCTGATCACTACCTGGCTTATTTTGGCTCTAG 155
Qy 121 AAGCACTGCTCTCTATGCTCTTATAGGACCACTGCGCATATGACATAGACATCGA 180
Db 156 AAGCACTGCTCTCTATGCTCTTATAGGACCACTGCGCATATGACATAGACATCGA 215
Qy 181 GGTAAAGGCAAGCAAAATTTTCTTAAAGTCAATAGCTGTCAAAAGAAAGCTGACA 240
Db 216 GGTAAAGGCAAGCAAAATTTTCTTAAAGTCAATAGCTGTCAAAAGAAAGCTGACA 275
Qy 241 ACCTGGCAACATAGGAGATTAATAATTTAAATTTAAATTTAGGAGTGTAGCCCTG 300
Db 276 ACCTGGCAACATAGGAGATTAATAATTTAAATTTAAATTTAGGAGTGTAGCCCTG 335
Qy 301 TAGTCTCAGCGACTCAGAGGCTGAGGAGGCTCACAGAGTGCAGAGTTCAAGAT 360
Db 336 TAGTCTCAGCGACTCAGAGGCTGAGGAGGCTCACAGAGTGCAGAGTTCAAGAT 395
Qy 361 GCAGTAGCTATGATCTGCTCCACTGCATGAAAGCTGGGTGACAGACAAAGCTGGCT 420
Db 396 GCAGTAGCTATGATCTGCTCCACTGCATGAAAGCTGGGTGACAGACAAAGCTGGCT 455
Qy 421 CTAAATTAATGAATTAATTAAGCTCAAGCTGTAGTACTAATCTGCGAGAGTCAAGC 480
Db 456 CTAAATTAATGAATTAATTAAGCTCAAGCTGTAGTACTAATCTGCGAGAGTCAAGC 515
Qy 481 CTCTACCTGTGATGACAAATGAGCACTATGCTTTTAACTGATTTGACAGCAAA 540
Db 516 CTCTACCTGTGATGACAAATGAGCACTATGCTTTTAACTGATTTGACAGCAAA 575
Qy 541 TGTTCCTGTGATATTTTCCCGAGGAAACCCGGAAGTGTCTTAATTTCTATACATCC 600
Db 576 TGTTCCTGTGATATTTTCCCGAGGAAACCCGGAAGTGTCTTAATTTCTATACATCC 635
Qy 601 ATTATATAGTTTAACTGTGATTTGAGAAACCCAGCTCTGATTTGATTTGAGGCGGG 660
Db 636 ATTATATAGTTTAACTGTGATTTGAGAAACCCAGCTCTGATTTGATTTGAGGCGGG 695
Qy 661 ACAGCTTTGTGCACTGTCTGCGGGATTTTCAATTTAACTCTCTTGAAGGCT 720
Db 696 ACAGCTTTGTGCACTGTCTGCGGGATTTTCAATTTAACTCTCTTGAAGGCT 755
Qy 721 TCTCATGTGAAGTCTCTGATATGCGGCGAGAGGCGGAGAAAGGTCAGGCGCTGAGA 780
Db 756 TCTCATGTGAAGTCTCTGATATGCGGCGAGAGGCGGAGAAAGGTCAGGCGCTGAGA 815
Qy 781 CGGCGGCGAGAGGCTGCTGCTGCTGAGAGAGGCTCTGCTCTCTGCGGCGGCTGCG 840
Db 816 CGGCGGCGAGAGGCTGCTGCTGCTGAGAGAGGCTCTGCTCTCTGCGGCGGCTGCG 875
Qy 841 AGCCCACTTCCCAACACCCCTGCGGAGAGGCGGCAAGGAGGAGAGAGAGAGAGGCTGCG 900
Db 876 AGCCCACTTCCCAACACCCCTGCGGAGAGGCGGCAAGGAGGAGAGAGAGAGGCTGCG 935
Qy 901 CTGCCCCAGCACTTCCGTCTCTAGGTGAGGTCTGAATGCGGCTTGGAGACCTGCTTG 960

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us-09-820-095b-3_copy_1_2000.rnpb

	TITLE OF INVENTION:	Identification and Mapping of Single
	TITLE OF INVENTION:	Nucleotide Polymorphisms in the Human Genome
	FILE REFERENCE:	108927.135
	CURRENT APPLICATION NUMBER:	US/09/925,065A
	PRIOR FILING DATE:	2001-08-08
	PRIOR APPLICATION NUMBER:	US 60/243,096
	PRIOR FILING DATE:	2000-10-24
	PRIOR APPLICATION NUMBER:	US 60/252,147
	PRIOR FILING DATE:	2000-11-20
	PRIOR APPLICATION NUMBER:	US 60/250,092
	PRIOR FILING DATE:	2000-11-30
	PRIOR APPLICATION NUMBER:	US 60/261,766
	PRIOR FILING DATE:	2001-01-16
	PRIOR APPLICATION NUMBER:	US 60/289,846
	PRIOR FILING DATE:	2001-05-09
	NUMBER OF SEQ ID NOS:	95/086
	SOFTWARE:	FastSeq for Windows Version 4.0
	SEQ ID NO 4413	
	LENGTH:	666
	TYPE:	DNA
	ORGANISM:	Homo sapiens
	US-09-925-065A-4413	
	Query Match	33.2%; Score 663.6; DB 13; Length 666;
	Best Local Similarity	99.8%; Pred. No. 1.3e-193;
	Matches	663; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY	1	TCCTCAAGTCCATGGGTGCGCTGGTAGAGACAGAGGGGATGAATGTGAACCCCTGCATGGC 60
DB	23	TCCTCAAGTCCATGGGTGCGCTGGTAGAGACAGAGGGGATGAATGTGAACCCCTGCATGGC 82
QY	61	TATGCCAACCCGCGCTCCCTCCCCCGCCGATCATCTACCTGCGCATTTTGTGCTCTAG 120
DB	83	TATGCCAACCCGCTCCCTCCCCCGCCGATCATCTACCTGCGCATTTTGTGCTCTAG 142
QY	121	AAGCACTGCTTCTATGCTCCTTGAGACCACTGCGCCGATATGACAGATAAGAAATATGA 180
DB	143	AAGCACTGCTTCTATGCTCCTTGAGACCACTGCGCCGATATGACAGATAAGAAATATGA 202
QY	181	GCGTAAGGCAACGCAATCTTTTCTTAAAGTCATACAGCTGTCAAAGAAGCTGGACA 240
DB	203	GCGTAAGGCAACGCAATCTTTTCTTAAAGTCATACAGCTGTCAAAGAAGCTGGACA 262
QY	241	ACCTGGGGCAATATGCGGATTAATAATTATTAATAGCCAGATGTGTAGCCCCCTG 300
DB	263	ACCTGGGGCAATATGCGGATTAATAATTATTAATAGCCAGATGTGTAGCCCCCTG 322
QY	301	TAGTCTCAGCACTCAGAGGCTGAGGAGGCTCACAGAGTGCAGACTTCAAGAT 360
DB	323	TAGTCTCAGCACTCAGAGGCTGAGGAGGCTCACAGAGTGCAGACTTCAAGAT 382
QY	361	GCAGTAGCTATGATCCTGGCCACTGCACTGAAGCTGGGTGACAGAGCAAGACCCTGGCT 420
DB	383	GCAGTAGCTATGATCCTGGCCACTGCACTGAAGCTGGGTGACAGAGCAAGACCCTGGCT 442
QY	421	CTAATTAATGATATCATTAAGTCTCAGACGCTAGTGTAGTAACTCTGCAAGTCAAGC 480
DB	443	CTAATTAATGATATCATTAAGTCTCAGACGCTAGTGTAGTAACTCTGCAAGTCAAGC 502
QY	481	CTTACCTGTCTGATGACAAATGGCACATATGTCTTTAACTGATTTGCAGACCAAAA 540
DB	503	CTTACCTGTCTGATGACAAATGGCACATATGTCTTTAACTGATTTGCAGACCAAAA 562
QY	541	TGTTTTTGAAATATTTTCCCAGGAAAAACCGGAATAGTCTTAATTCTATCATGCC 600

QY 601 ATTATATTAGTTTACCTGTGGATAAACCAGCTTGATTGCATTTTCAGGGCGGG 660
Db 623 ATTATATTAGTTTACCTGTGGATTGGAAAACCCAGCTTGATTGCATTTTCAGGGCGGG 682
QY 661 ACAG 664
|||

Db 683 ACAG 686

RESULT 7
US-09-925-065A-4414
; Sequence 4414, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4414
; LENGTH: 686
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-4414

Query Match 33.2%; Score 663.6; DB 13; Length 686;
Best Local Similarity 99.8%; Pred. No. 1.3e-193;
Matches 663; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTCCAAGTCATGGTCTGCTAGGACACAGGGGATTAATGTAACCCCTGCATGGC 60
DB 23 TCTCCAAGTCATGGTCTGCTAGGACACAGGGGATTAATGTAACCCCTGCATGGC 82
QY 61 TATAGCACCTGCTCTCTCCCTGCTGATCACTACCTGGCTATTTTGGCTCTAG 120
DB 83 TATAGCACCTGCTCTCTCCCTGCTGATCACTACCTGGCTATTTTGGCTCTAG 142
QY 121 AAGCACTGCTCTCTATGCTCTTAGGACCACTGCCGATATGACATTAAGATCGA 180
DB 143 AAGCACTGCTCTCTATGCTCTTAGGACCACTGCCGATATGACATTAAGATCGA 202
QY 181 GGTAAAGCAACCCCAATCTTTTCTTAAAGTCATACAGCTGTCAAAAGAAAGCTGGACA 240
DB 203 GGTAAAGCAACCCCAATCTTTTCTTAAAGTCATACAGCTGTCAAAAGAAAGCTGGACA 262
QY 241 AACTGGCAACATAGGAGATTAATAATTATTAATGCGAGTGGTACCCCTG 300
DB 263 AACTGGCAACATAGGAGATTAATAATTATTAATGCGAGTGGTACCCCTG 322
QY 301 TAGTCTCAGGACTCAGAGGCTGAGGACGAGGCTCACCAAGATGAGATTTCAAGAT 360
DB 323 TAGTCTCAGGACTCAGAGGCTGAGGACGAGGCTCACCAAGATGAGATTTCAAGAT 382
QY 361 GCGATGAGCTATGATCTCTGCACTGCACTGAAGCTGGGTGACAGCAAGAACCTGGCT 420
DB 383 GCGATGAGCTATGATCTCTGCACTGCACTGAAGCTGGGTGACAGCAAGAACCTGGCT 442
QY 421 CTAATAATGAATATACATAAAGTCTCAGCTAGTGGATATCTGCGCAGAGTGAAGC 480
DB 443 CTAATAATGAATATACATAAAGTCTCAGCTAGTGGATATCTGCGCAGAGTGAAGC 502
QY 481 CTCTACCTGCTGATGACAAATGGCACTATGCTTTTAACTGATGAGACACACAA 540
DB 503 CTCTACCTGCTGATGACAAATGGCACTATGCTTTTAACTGATGAGACACACAA 562
QY 541 TGTTTTGAATATTTTCCCGAGGAAAAAACCGGAGATGTTCTTAATTTCTATACATCC 600

Db 563 TGTTTTGAATATTTTCCCGAGGAAAAAACCGGAGATGTTCTTAATTTCTATACATCC 622
QY 601 ATTATATGTTTACTGCTGATTTGGGAAACCCGACTGATTCATTTCCAGGGCGG 660
DB 623 ATTATATGTTTACTGCTGATTTGGGAAACCCGACTGATTCATTTCCAGGGCGG 682
QY 661 ACAG 664
DB 683 ACAG 686

RESULT 8
US-10-027-632-41182
; Sequence 41182, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41182
; LENGTH: 598
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-41182

Query Match 29.9%; Score 597.6; DB 14; Length 598;
Best Local Similarity 99.8%; Pred. No. 2.9e-173;
Matches 597; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 116 TCTAGAAGCACTGCTCTCTATGCTCTTGAACCACTGCCGATATGACAGATTAAGAT 175
DB 1 TCTAGAAGCACTGCTCTCTATGCTCTTGAACCACTGCCGATATGACAGATTAAGAT 60
QY 176 ATGAGGCTTAAGGCAACGCAATCTTTTCTTAAAGTCATACAGCTGTCAAAAGAAAGCT 235
DB 61 ATGAGGCTTAAGGCAACGCAATCTTTTCTTAAAGTCATACAGCTGTCAAAAGAAAGCT 120
QY 236 GGAACAACCTGGGCAACATAGCGAGATTAATAATTATTAATGACAGATGCTAGGCC 295
DB 121 GGAACAACCTGGGCAACATAGCGAGATTAATAATTATTAATGACAGATGCTAGGCC 180
QY 296 CCCTGATGCTCAGGACTCAGAGGCTGAGGACGAGGCTCACCAAGATGAGATTTCA 355
DB 181 CCCTGATGCTCAGGACTCAGAGGCTGAGGACGAGGCTCACCAAGATGAGATTTCA 240
QY 356 AGATGACATGAGCTATATATCTCTGCACTGCACTGAAGCTGGGTGACAGAGCAAGACC 415
DB 241 AGATGACATGAGCTATATATCTCTGCACTGCACTGAAGCTGGGTGACAGAGCAAGACC 300
QY 416 TGGCTTAATAATGAATATACATAAAGTCTCAGAGCTAGTGGATTAATCTGCGAGAT 475
DB 301 TGGCTTAATAATGAATATACATAAAGTCTCAGAGCTAGTGGATTAATCTGCGAGAT 360

QY 476 CAGGCTCTACCTGTCTGATGACAAATGGCACTATGCTTTTAACTGATGACAGACC 535
Db 361 CAGGCTCTACCTGTCTGATGACAAATGGCACTATGCTTTTAACTGATGACAGACC 420
QY 536 ACAATGTTTGTGATATTTTCCCGAGGAAAAACCGGAAGTAGTTCTTAAATTCTATA 595
Db 421 ACAATGTTTGTGATATTTTCCCGAGGAAAAACCGGAAGTAGTTCTTAAATTCTATA 480
QY 596 CATCATATATATATGTTTACCTGTGATGGGAAAAACCGACTGATTTGACATTGAGG 655
Db 481 CATCATATATATATGTTTACCTGTGATGGGAAAAACCGACTGATTTGACATTGAGG 540
QY 656 GCGGACAGCCTTGTGTGACATGCTGTGCGGGAATTTTCAATTTAACTCTCTAGA 713
Db 541 GCGGACAGCCTTGTGTGACATGCTGTGCGGGAATTTTCAATTTAACTCTCTAGA 598

RESULT 9

US-10-027-632-41182
; Sequence 41182, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: Polymorphisms in the Human Genome
; CURRENT APPLICATION NUMBER: US/10/027, 632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41182
; LENGTH: 598
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-41182

Query Match 29.9%; Score 597.6; DB 18; Length 598;
Best Local Similarity 99.8%; Pred. No. 2.9e-173;
Matches 597; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 116 TCTAGAAGCACTGCTTCTATGCTCCTTAGACCACTGCCGATATGACATAAGAAC 175
Db 1 TCTAGAAGCACTGCTTCTATGCTCCTTAGACCACTGCCGATATGACATAAGAAC 60
QY 176 ATGAGGCTTAGCAACGCAATCTTTTCTTAAAGTCATACAGCTGTCAAAAAGAGCT 235
Db 61 ATGAGGCTTAGCAACGCAATCTTTTCTTAAAGTCATACAGCTGTCAAAAAGAGCT 150
QY 236 GGAACAACCTGGGCAACATACGAGATATAAATTAATTAATGACAGATGGTATGCC 255
Db 121 GGAACAACCTGGGCAACATACGAGATATAAATTAATTAATGACAGATGGTATGCC 180
QY 296 CCCTGATGCTCAAGCACTGAGAGGCTGAGGAGGAGCTCAACAAGTGCAGAGTTCA 355
Db 181 CCCTGATGCTCAAGCACTGAGAGGCTGAGGAGGAGCTCAACAAGTGCAGAGTTCA 240
QY 356 AGATGACAGTGAAGCTATATCTGCTCCACTGCACTGAAAAGCTGGGTGACAGAGAACCC 415
Db 241 AGATGACAGTGAAGCTATATCTGCTCCACTGCACTGAAAAGCTGGGTGACAGAGAACCC 300

QY 416 TGGCTTAATTAATGAATACATAAGCTCACAGTATGAGTATCTGACAGAGT 475
Db 301 TGGCTTAATTAATGAATACATAAGCTCACAGTATGAGTATCTGACAGAGT 360
QY 476 CAGGCTCTACCTGTCTGATGACAAATGGCACTATGCTTTTAACTGATGACAGACC 535
Db 361 CAGGCTCTACCTGTCTGATGACAAATGGCACTATGCTTTTAACTGATGACAGACC 420
QY 536 ACAATGTTTGTGATATTTTCCCGAGGAAAAACCGGAAGTAGTTCTTAAATTCTATA 595
Db 421 ACAATGTTTGTGATATTTTCCCGAGGAAAAACCGGAAGTAGTTCTTAAATTCTATA 480
QY 596 CATCATATATATATGTTTACCTGTGATGGGAAAAACCGACTGATTTGACATTGAGG 655
Db 481 CATCATATATATATGTTTACCTGTGATGGGAAAAACCGACTGATTTGACATTGAGG 540
QY 656 GCGGACAGCCTTGTGTGACATGCTGTGCGGGAATTTTCAATTTAACTCTCTAGA 713
Db 541 GCGGACAGCCTTGTGTGACATGCTGTGCGGGAATTTTCAATTTAACTCTCTAGA 598

RESULT 10

US-09-864-761-9542/c
; Sequence 9542, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/224,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117

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/ SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
/ SEQ ID NO 9542
/ LENGTH: 563
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ OTHER INFORMATION: MAP TO AC002472.3
/ OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 12
/ OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 10
/ OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 14
/ OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 6.7
/ OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 11
/ OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 13
/ OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 6.7
/ OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 18
US-09-864-761-9542
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Query Match 28.1%; Score 563; DB 9; Length 563;
Best Local Similarity 100.0%; Pred. No. 1.3e-162;
Matches 563; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 386 CACTGAAGCTGGGTGACAGACAGACACCTGGCTCTAATTAATGAATACATTAAGTTC 445
DB 563 CACTGAAGCTGGGTGACAGACAGACACCTGGCTCTAATTAATGAATACATTAAGTTC 504
QY 446 ACAGCTAGTGTGATAGCTAATCTGCGACAGTCAAGGCTCTAAGTGTGATGACAAATGGC 505
DB 503 ACAGCTAGTGTGATAGCTAATCTGCGACAGTCAAGGCTCTAAGTGTGATGACAAATGGC 444
QY 506 ACACCTATGCTCTTTAATCCTGATGACAGACCAAAATGTTTGATATTTTCCCAAGG 565
DB 443 ACACCTATGCTCTTTAATCCTGATGACAGACCAAAATGTTTGATATTTTCCCAAGG 384
QY 566 AAAAAACCGAAGTATGTTCTAATCTATACATCATTAATTAATTAAGTATTAACCTGGATT 625
DB 383 AAAAAACCGAAGTATGTTCTAATCTATACATCATTAATTAATTAAGTATTAACCTGGATT 324
QY 626 GGGAAAAACCGAAGTATGTTCTAATCTATACATCATTAATTAATTAAGTATTAACCTGG 685
DB 323 GGGAAAAACCGAAGTATGTTCTAATCTATACATCATTAATTAATTAAGTATTAACCTGG 264
QY 686 GGAATTTTCAATTTAATCCTCTCTCTAGAAAGCCCTTCTATGTTAAAGTTCCGATGCCG 745
DB 263 GGAATTTTCAATTTAATCCTCTCTCTAGAAAGCCCTTCTATGTTAAAGTTCCGATGCCG 204
QY 746 CCAGGAGCCCGGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 805
DB 203 CCAGGAGCCCGGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 144
QY 806 GGTGGAAGAGGAGTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 865
DB 143 GGTGGAAGAGGAGTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 84
QY 866 GAGMAGCCCCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 925
DB 83 GAGMAGCCCCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 24
QY 926 GGTGGAGTCTGAATCGGCTTG 948
DB 23 GGTGGAGTCTGAATCGGCTTG 1
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RESULT 11

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US-09-864-761-9446/c
/ Sequence 9446, Application US/09864761
/ Patent No. US20020048763A1
/ GENERAL INFORMATION:
/ APPLICANT: Penn, Sharon G.
/ APPLICANT: Rank, David R.
/ APPLICANT: Hanzel, David K.
/ APPLICANT: Chon, Wensheng
/ TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
/ TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
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/ FILE REFERENCE: Aeomica-X-1
/ CURRENT APPLICATION NUMBER: US/09/864,761
/ PRIOR FILING DATE: 2001-05-23
/ PRIOR APPLICATION NUMBER: US 60/180,312
/ PRIOR FILING DATE: 2000-02-04
/ PRIOR APPLICATION NUMBER: US 60/207,456
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: US 09/632,366
/ PRIOR FILING DATE: 2000-08-03
/ PRIOR APPLICATION NUMBER: GB 24263.6
/ PRIOR FILING DATE: 2000-10-04
/ PRIOR APPLICATION NUMBER: US 60/236,359
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: PCT/US01/00666
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00669
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00665
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00668
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00663
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00662
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00661
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00670
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: US 60/234,687
/ PRIOR FILING DATE: 2000-09-21
/ PRIOR APPLICATION NUMBER: US 09/608,408
/ PRIOR FILING DATE: 2000-06-30
/ PRIOR APPLICATION NUMBER: US 09/774,203
/ PRIOR FILING DATE: 2001-01-29
/ NUMBER OF SEQ ID NOS: 49117
/ SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
/ SEQ ID NO 9446
/ LENGTH: 554
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ OTHER INFORMATION: MAP TO AC002472.3
/ OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.2
/ OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.2
/ OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.1
US-09-864-761-9446
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Query Match 27.7%; Score 554; DB 9; Length 554;
Best Local Similarity 100.0%; Pred. No. 8e-160;
Matches 554; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 615 ACTGTGATGGGAAACCCAGCTCTGATTCATTTACAGGCGGAGACACCTTGTGTC 674
DB 554 ACTGTGATGGGAAACCCAGCTCTGATTCATTTACAGGCGGAGACACCTTGTGTC 495
QY 675 ACTGTGCGGGGATTTTCACTTTAACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 734
DB 494 ACTGTGCGGGGATTTTCACTTTAACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 435
QY 735 TCCTGATGCGCGAGAGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 794
DB 434 TCCTGATGCGCGAGAGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 375
QY 795 CTACGTCCCTCTGTGACAGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 854
DB 374 CTACGTCCCTCTGTGACAGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 315
QY 855 AACCCCTGCGGAGAAACCCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 914
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Db 314 AACCCCTGCGGAGAACCCCAAGGGAGAGACGGGCTGGCCCTGCCCCGAGACC 255
Qy 915 TTCCGCTCTAGGTCGAGGTCGAAATGGGCTTGGGACCTGCTGGCTTGGGAGACCC 974
Db 254 TTCCGCTCTAGGTCGAGGTCGAAATGGGCTTGGGACCTGCTGGCTTGGGAGACCC 195
Qy 975 TGCAGAGCTCAGAGGCGCCGCTGCTCTTCTGCTTTTATCTCCAGACCT 1034
Db 194 TGCAGAGCTCAGAGGCGCCGCTGCTCTTCTGCTTTTATCTCCAGACCT 135
Qy 1035 CTGGCAGGAACCGCTCATGCTTACGCCCTTTTCGACCTTCAGACCTGAGGCGGAGACC 1094
Db 134 CTGGCAGGAACCGCTCATGCTTACGCCCTTTTCGACCTTCAGACCTGAGGCGGAGACC 75
Qy 1095 GCTTGGGCGCTCACTTACGCGGAGCGGAGGATGGGCGGAGCTTGGCGCTGCTGA 1154
Db 74 GCTTGGGCGCTCACTTACGCGGAGCGGAGGATGGGCGGAGCTTGGCGCTGCTGA 15
Qy 1155 CCAATCGAGTGTGG 1168
Db 14 CCAATCGAGTGTGG 1
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RESULT 12

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US-10-094-749-1376/c
; Sequence 1376, Application US/10094749
; Publication No. US20030219741A1
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; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: MAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOMYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1376
; LENGTH: 1904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-094-749-1376
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Query Match 22.9%; Score 458.4; DB 18; Length 1904;

Best Local Similarity 99.8%; Pred. No. 4.7e-130;

Matches 459; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 460 ATCTGTGATTTGGGAAACCCAGCTGATGCAATTTTCAGGGCGGAGACGCTTTGGTGC 401
Qy 675 ACTGTGCGCGGATTTTTCATTTTAACTCTCTTACAGACGCGCTTCTCATGTGTAAGT 734
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Db 400 ACTGTCTGCGGAGATTTTTCATTTTAACTCTCTTACAGACGCGCTTCTCATGTGTAAGT 341
Qy 735 TTCTGATGCGCGCAGAGAGCGCCGAGAGAGAGAGGAGGCTTGAGAGACCCCGAGAGG 794
Db 340 TTCTGATGCGCGCAGAGAGCGCCGAGAGAGAGAGGAGGCTTGAGAGACCCCGAGAGG 281
Qy 795 CTACGTGCGCTGCTGAGCAGAGGCTCTCTGCTCTCTGCGCGGCGCCAGCCCACTTCCAC 854
Db 280 CTACGTGCGCTGCTGAGCAGAGGCTCTCTGCTCTCTGCGCGGCGCCAGCCCACTTCCAC 221
Qy 855 AACCCCTGCGGAGAGACCCCAAGGGAGAGAGCGGCGCTTGCGCCCTGCGGAGACC 914
Db 220 AACCCCTGCGGAGAGACCCCAAGGGAGAGAGCGGCGCTTGCGCCCTGCGGAGACC 161
Qy 915 TTCCGCTCTAGGTCGAGGTCGAAATGGGCTTGGGACCTGCTGGCTTGGGAGACCC 974
Db 160 TTCCGCTCTAGGTCGAGGTCGAAATGGGCTTGGGACCTGCTGGCTTGGGAGACCC 101
Qy 975 TGCAGAGCTCAGAGGCGCGCTGCGCTTCTCTCTGCTTTTATCTCCAGACCT 1034
Db 100 TGCAGAGCTCAGAGGCGCGCTGCGCTTCTCTCTGCTTTTATCTCCAGACCT 41
Qy 1035 CTGGCAGGAACCGCTCATGCTTACGCCCTTTTCGACCT 1074
Db 40 CTGGCAGGAACCGCTCATGCTTACGCCCTTTTCGACCT 1
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RESULT 13

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US-10-029-386-6681
; Sequence 6681, Application US/10029386
; Publication No. US20030194704A1
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; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GI
; FILE REFERENCE: AEOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 6681
; LENGTH: 508
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC002472.3
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.4
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6
; OTHER INFORMATION: NT HIT: AB002059.1, EVALUATE 1.00e-102
; OTHER INFORMATION: SWISSPROT HIT: O35973, EVALUATE 9.30e-01
; OTHER INFORMATION: EST_HUMAN HIT: B1837149.1, EVALUATE 2.00e-13
US-10-029-386-6681
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Query Match 19.2%; Score 383.2; DB 17; Length 508;

Best Local Similarity 87.8%; Pred. No. 4.1e-107;

Matches 455; Conservative 0; Mismatches 53; Indels 10; Gaps 3;

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Qy 1472 GAGAGGCGCTGGGAACTTGCAGAGCGAGGTACCTTCTCATCTGTGCTTGTAT 1531
Db 1 GAGAGGCGCTGGGAACTTGCAGAGCGAGGTACCTTCTCATCTGTGCTTGTAT 60
Qy 1532 CTTCGATGCTGCTGCTTCTTCATAGCTGCTCCCTGACAGAGAACTCATCCCATCT 1591
Db 61 CTTCGATGCTGCTGCTTCTTCATAGCTGCTCCCTGACAGAACTCATCCCATCT 120
Qy 1592 TTGTCTGCTTGTGAACTTCGAAATCTGCAAGGTCAGCTTAGAGTCACTTCTCGG 1651
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Matches 158; Conservative 0; Mismatches 6; Indels 6; Gaps 1;
QY 1831 GAATGTAGGAGGCTGGAGGTGCAGGCACTGGGATTAAGGGTTGAGGCTGGGTGT 1890
Db 1 GAAATGTAAGGAGGCTGGAGGTGCAGGCACTGGGATTAAGGGTTGAGGCTGGGTGT 60
QY 1891 GGAGGCTGATCTGCTTTAGTGAAGTGTCCCTTTACAGCAACTGGCTGGC 1950
Db 61 GGAGG-----CTGGATCTGCTTTAGTGAAGTGTCCCTTTACAGCGGCTGGCTGGC 114
QY 1951 CTGGCTCGGCGCTGCTTTGCTCTGTTCACTGGGCTGCAGCTGCCA 2000
Db 115 CTGGCTCGGCGCTGCTTTGCTCTGTTCACTGGGCTGCAGCTGCCA 164

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: November 8, 2005, 14:17:31 ; Search time 43 Seconds
(without alignments)
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Title: US-09-820-095B-2

Perfect score: 2226
Sequence: 1 MGSPGATTGMLDYKTEK.....TPGWPCSPDTHLPTHGSL 405

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Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

1: Issued Patents AA.*
2: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
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6: /cgn2_6/ptodata/1/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2203	99.0	431	3	US-09-381-681-3 Sequence 3, Appl1
2	2203	99.0	441	3	US-09-191-136-31 Sequence 31, Appl1
3	1554	69.8	379	3	US-09-191-136-32 Sequence 32, Appl1
4	822	36.9	422	4	US-09-949-016-6238 Sequence 6238, Ap
5	816	36.7	388	2	US-08-742-621-1 Sequence 1419, Ap
6	816	36.7	397	4	US-09-949-016-9419 Sequence 9419, Ap
7	813	36.5	388	3	US-09-191-608-22 Sequence 22, Appl1
8	794	35.7	388	2	US-08-750-134A-7 Sequence 7, Appl1
9	794	35.7	388	3	US-09-363-745-7 Sequence 23, Appl1
10	793	35.6	388	3	US-09-191-608-23 Sequence 3, Appl1
11	744	33.4	399	2	US-08-742-621-3 Sequence 11, Appl1
12	744	33.4	399	2	US-08-750-134A-11 Sequence 15, Appl1
13	744	33.4	399	2	US-09-363-745-11 Sequence 6236, Ap
14	744	33.4	453	4	US-09-949-016-6236 Sequence 10007, A
15	744	33.4	453	4	US-09-949-016-10007 Sequence 4, Appl1
16	739	33.2	399	2	US-08-742-621-4 Sequence 5, Appl1
17	739	33.2	399	2	US-08-750-134A-5 Sequence 5, Appl1
18	739	33.2	399	2	US-09-363-745-5 Sequence 15, Appl1
19	720	32.3	472	2	US-08-742-621-5 Sequence 15, Appl1
20	720	32.3	472	2	US-08-842-079-15 Sequence 15, Appl1
21	720	32.3	472	2	US-09-638-857-15 Sequence 15, Appl1
22	709	31.9	471	3	US-09-191-608-17 Sequence 17, Appl1
23	694	31.2	404	3	US-09-191-608-18 Sequence 18, Appl1
24	693	31.1	497	2	US-09-191-608-20 Sequence 20, Appl1
25	679.5	30.5	397	2	US-08-750-134A-9 Sequence 9, Appl1
26	679.5	30.5	397	3	US-09-363-745-9 Sequence 17, Appl1
27	679.5	30.5	397	3	US-09-191-136-17 Sequence 17, Appl1

28	673.5	30.3	397	3	US-09-191-136-16 Sequence 16, Appl1
29	673.5	30.3	397	4	US-09-949-016-6237 Sequence 6237, Ap
30	631	28.3	447	3	US-09-191-608-19 Sequence 19, Appl1
31	608.5	27.3	595	3	US-08-842-079-18 Sequence 18, Appl1
32	608.5	27.3	595	3	US-08-842-079-20 Sequence 18, Appl1
33	608.5	27.3	595	3	US-08-842-079-20 Sequence 18, Appl1
34	608.5	27.3	595	4	US-09-638-857-18 Sequence 20, Appl1
35	606.5	27.2	280	4	US-09-949-016-9249 Sequence 9249, Ap
36	606.5	27.2	280	4	US-09-949-016-9249 Sequence 9250, Ap
37	602.5	27.1	595	3	US-08-842-079-6 Sequence 6, Appl1
38	602.5	27.1	595	3	US-08-842-079-17 Sequence 17, Appl1
39	602.5	27.1	595	4	US-09-638-857-6 Sequence 6, Appl1
40	602.5	27.1	595	4	US-09-638-857-17 Sequence 17, Appl1
41	599	26.9	433	4	US-09-949-016-10009 Sequence 10009, A
42	528.5	23.7	256	4	US-09-949-016-7576 Sequence 7576, Ap
43	528.5	23.7	256	4	US-09-949-016-7577 Sequence 7577, Ap
44	515.5	23.2	289	4	US-09-949-016-10585 Sequence 10585, A
45	349	15.7	211	1	US-07-915-934-4 Sequence 4, Appl1

ALIGNMENTS

RESULT 1									
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; Sequence 3, Application US/09381681									
; Patent No. 6255472									
; GENERAL INFORMATION:									
; APPLICANT: TAKINO, Takashi									
; APPLICANT: NAKAMURA, Yusuke									
; TITLE OF INVENTION: HUMAN GENES									
; FILE REFERENCE: 055876									
; CURRENT APPLICATION NUMBER: US/09/381,681									
; CURRENT FILING DATE: 2000-01-10									
; EARLIER APPLICATION NUMBER: JPA 9-093044									
; EARLIER FILING DATE: 1997-03-26									
; NUMBER OF SEQ. ID NOS: 9									
; SOFTWARE: PatentIn Ver. 2.1									
; SEQ. ID NO. 3									
; LENGTH: 431									
; TYPE: PRT									
; ORGANISM: Human									
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Query Match									
Best Local Similarity 99.0%; Score 2203; DB 3; Length 431;									
Matches 405; Conservative 0; Mismatches 0; Indels 26; Gaps 1;									
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Db	1	MGSPGATTGMLDYKTEK-----MALLAKKGYQERDLE 60							
Oy	35	PQFSITIKLGVSVTQIKELGNRLMDVADFYKPPQGENVFPLVTPAQQVGRCPBH 94							
Db	61	PQFSITIKLGVSVTQIKELGNRLMDVADFYKPPQGENVFPLVTPAQQVGRCPBH 120							
Oy	95	PSVPLACWVDEDCPEBEGGTHSGVKTGCQVFNHGRICEISKCPVBSGVPSPRL 154							
Db	121	PSVPLACWVDEDCPEBEGGTHSGVKTGCQVFNHGRICEISKCPVBSGVPSPRL 180							
Oy	155	AAQONFLFLFKNTVTFKFNFSKNALETWDPYFKHCRREPSPFCVPRIGIDLVAKA 214							
Db	181	AAQONFLFLFKNTVTFKFNFSKNALETWDPYFKHCRREPSPFCVPRIGIDLVAKA 240							
Oy	215	GGTFEDLALLGGSGVIRVHMDCDLDTGSCWPHYSFQLOEKSYNFTATHMWEPQVEA 274							
Db	241	GGTFEDLALLGGSGVIRVHMDCDLDTGSCWPHYSFQLOEKSYNFTATHMWEPQVEA 300							
Oy	275	RTLKLKIGIRFDILVTOAGKFGILPTAVVLGTGAALGVTFPCDLLLVYDEAHFYW 334							
Db	301	RTLKLKIGIRFDILVTOAGKFGILPTAVVLGTGAALGVTFPCDLLLVYDEAHFYW 360							
Oy	335	RTKYEAKAPKATANSVWRELALASQARLAECLRSSAPAPPTAAGSOTOTPGWPCSS 394							

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Db 361 RTYEAKAPKATANSVWRELALASQARLAECRLRSSAPAPTAAGSQTOTGWPCCPS 420
Qy 395 DTHLPTHGSL 405
421 DTHLPTHGSL 431

RESULT 2
US-09-191-136-31
; Sequence 31, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Lynch, Kevin J.
; APPLICANT: Burgard, Edward C.
; APPLICANT: Van Biesen, T.
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production
; FILE REFERENCE: 6293 US. P1
; CURRENT APPLICATION NUMBER: US/09/191,136B
; EARLIER FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 09/008,526
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 09/008,185
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,298
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,669
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Homo sapiens (polypeptide)
US-09-191-136-31

Query Match 99.0%; Score 2203; DB 3; Length 441;
Best Local Similarity 94.0%; Pred. No. 2,5e-235;
Matches 405; Conservative 0; Mismatches 0; Indels 26; Gaps 1;

Qy 1 MSGPGATTGWLIDYKTEK-----WALLAKKGYQERDLE 34
Db 11 MSGPGATTGWLIDYKTEKVTMRNMRVGAQLRLQFGIVVYVGMALLAKKGYQERDLE 70
Qy 35 POSIITTKLKGVSVTQIKELGNRLMDVADPVKPPGGENVFELVTNPLVTPAQQVGRCPBH 94
Db 71 POSIITTKLKGVSVTQIKELGNRLMDVADPVKPPGGENVFELVTNPLVTPAQQVGRCPBH 130
Qy 95 PSYPLANCWVDEDCPEGEGCTHSHGVKTGCQCVFNGTHRTCEIWSMCPVESGVVPSRPRL 154
Db 131 PSYPLANCWVDEDCPEGEGCTHSHGVKTGCQCVFNGTHRTCEIWSMCPVESGVVPSRPRL 190
Qy 155 AQAQNTFTLKNTVTFSKFNFSKSNALETWDPYFKHCRVEPQSPYCPVFRIGDLVAKA 214
Db 191 AQAQNTFTLKNTVTFSKFNFSKSNALETWDPYFKHCRVEPQSPYCPVFRIGDLVAKA 250
Qy 215 GGFEEFLALGSGVGIHVHWDCLDPTGDSGCMPHYSFQLOEKSYNRTATNHWEOGVFA 274
Db 251 GGFEEFLALGSGVGIHVHWDCLDPTGDSGCMPHYSFQLOEKSYNRTATNHWEOGVFA 310
Qy 275 RTLLKLYGIRFDILVGOAGFGILPTAVVLGTGAAMLGVTFPCDLLLVVDREAHFYW 334
Db 311 RTLLKLYGIRFDILVGOAGFGILPTAVVLGTGAAMLGVTFPCDLLLVVDREAHFYW 370
Qy 335 RTYEBAKAPKATANSVWRELALASQARLAECRLRSSAPAPTAAGSQTOTGWPCCPS 394
Db 371 RTYEBAKAPKATANSVWRELALASQARLAECRLRSSAPAPTAAGSQTOTGWPCCPS 430
Qy 395 DTHLPTHGSL 405
421 DTHLPTHGSL 405
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Db 431 DTHLPTHGSL 441

RESULT 3
US-09-191-136-32
; Sequence 32, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Lynch, Kevin J.
; APPLICANT: Burgard, Edward C.
; APPLICANT: Van Biesen, T.
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production
; FILE REFERENCE: 6293 US. P1
; CURRENT APPLICATION NUMBER: US/09/191,136B
; EARLIER FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 09/008,526
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 09/008,185
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,298
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,669
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 379
; TYPE: PRT
; ORGANISM: Rattus rattus
US-09-191-136-32

Query Match 69.8%; Score 1554; DB 3; Length 379;
Best Local Similarity 75.7%; Pred. No. 2e-163;
Matches 281; Conservative 26; Mismatches 38; Indels 26; Gaps 1;

Qy 6 ATTGWLIDYKTEK-----WALLAKKGYQERDLEPQFSI 39
Db 8 ALVSMGFIDYKTEKRYMTNRCWVGISQRLQLGVVYVGMALLAKKGYQERDMDQISV 67
Qy 40 ITYKKGVSVTQIKELGNRLMDVADPVKPPGGENVFELVTNPLVTPAQQVGRCPBH 99
Db 68 ITYKKGVSVTQIKELGNRLMDVADPVKPPGGENVFELVTNPLVTPAQQVGRCPBH 127
Qy 100 ANCWVDEDCPEGEGCTHSHGVKTGCQCVFNGTHRTCEIWSMCPVESGVVPSRPRLAQAON 159
Db 128 ANCWVDEDCPEGEGCTHSHGVKTGCQCVFNGTHRTCEIWSMCPVESGVVPSRPRLAQAON 187
Qy 160 FTLEIKNTVTFSKFNFSKSNALETWDPYFKHCRVEPQSPYCPVFRIGDLVAKAGCTFE 219
Db 188 FTLEIKNTVTFSKFNFSKSNALETWDPYFKHCRVEPQSPYCPVFRIGDLVAKAGCTFE 247
Qy 220 DIALLGSGVIRVHWDCLDPTGDSGCMPHYSFQLOEKSYNRTATNHWEOGVFA 279
Db 248 DIALLGSGVIRVHWDCLDPTGDSGCMPHYSFQLOEKSYNRTATNHWEOGVFA 307
Qy 280 LYGIRFDILVGOAGFGILPTAVVLGTGAAMLGVTFPCDLLLVVDREAHFYW 339
Db 308 LYGIRFDILVGOAGFGILPTAVVLGTGAAMLGVTFPCDLLLVVDREAHFYW 367
Qy 340 EAKAPKATANS 350
Db 368 EAKAPKATANS 378

RESULT 4
US-09-949-016-6238
; Sequence 6238, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
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: PRIOR APPLICATION NUMBER: 60/231,498
: PRIOR FILING DATE: 2000-09-08
: NUMBER OF SEQ ID NOS: 207012
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO. 9419
: LENGTH: 397
: TYPE: gpt
: ORGANISM: Human
: OS-09-949-016-9419

```

Query Match	Score	DB	Length
36.7%	816	4	397

QY	20	WALLAKKQYQDRDIEPQSIITIKLGAVTQKEJGNLMDVADVKPOGNGVFLVTN	79
Db	55	WVFWMEKGYQEND-SVSSVTTTKVGVAVTNTSKLGPRIMVDADVIPAQENSLFVMTN	113
QY	80	FLVNPQYQGRGCEHPHSVPLANCWDEDCPBEGSTTHGVTGQGVVFNCHRCIELMS	139
Db	114	VITLMTNQIGJCPPEIPDATTV-CASDASCTGASATHTNGSTGRCVANGSVKICEVAA	172
QY	140	WCPYVESGV-VPSRPLLAOQNFTEIKTKVTFFSKENFSKSNALETWDPYFPGHCRVEQF	198
Db	173	WCPVEDDTHVBPQFPLKKAENFTLLVKNNIMWPKENFSKRNLIPMTITTYLKSCTIDAKT	232
QY	199	SPGCPVPFPIISDLVAKAGSTFEDLLGGSVGRVHMDDDLDTGDBGSCMHPYSFOQE---	255
Db	233	DFPCPIFELGKIVENAGHSFQDMVAEGIMGIVQWMDCNLDPAASLCLPYSFRRLDTRD	292
QY	256	-----KSYNRTATTHMWEQGVAEARLLKLUGIRFDILVYTGQAQGFGLIPRAVLGTGA	309
Db	293	VEHNHSPGYNRRPFAKYRRDLAGNEQRTLKAYGIRFDIIVFGAKGKPIIIPMIINGSL	352
QY	310	AWLGVTFFCDLLLLVYDREAHFYKRTYKE	339
Db	353	ALLGMAIVLCDIIVLYCWMKKRLYYBEKKYK	382

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RESULT 7
US-09-191-608-22
; Sequence 22, Application US/09191608
; Patent No. 6242216
; GENERAL INFORMATION:
; APPLICANT: Lynch, Kevin J.
; APPLICANT: Burgard, Edward C.
; APPLICANT: Metzger, Randy E.
; APPLICANT: Niforatos, Wende
; APPLICANT: Touma, Edward B.
; APPLICANT: Van Biesen, T.
; TITLE OF INVENTION: Nucleic Acids Encoding a Functional
; TITLE OF INVENTION: Human Purioreceptor P2x2 and P2x4 And Methods Of Production
; FILE REFERENCE: 6194 US, P1
; CURRENT APPLICATION NUMBER: US/09/191,608
; CURRENT FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 22
; LENGTH: 388
; TYPE: PR1
; ORGANISM: Homo sapiens
; US-09-191-608-22

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Query Match	36.5%	Score 813	DB 31	Length 388
Best Local Similarity	47.0%	Pred. No. 3.5e-81		
Matches 155	Conservative	55	Mismatches 108	Indels 12
			Gaps	4

[illegible]

```

Db      105 VILTMQGTGLCEPEIDATTV--CXSDASCTGAGNTHNGVSTORCAFNQSVATCEVA 165
Qy      140 MGVESGV--VPSRPILLAQONFTLEIKXTVTFSEKNEFSKSALETMPTYFKHGRYEPQ 199
        ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      164 MCVBEDDTHPOPAFAKKAENFTLLVKNINIMPKNEFSKNILPEVITTTTLYKSCLYDQKT 222
Qy      199 SPYCPVFRIGDLVAKAGGTFFEDLLALGGSVGIKVHMDCDLDTGSGCWMHYSFQLOE-- 255
        ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      224 DPCCPIFRFGKIKVENNGHGFQDMAVEGGIMGIQVIMDCNDLDRASLCLIPRSFPRDLTRD 283
Qy      256 -----KSNPRTATIMWQPGVEVARTLLKLYGIRFEDLLYGOAGKFGLLPTAVTLTGCA 309
        ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      284 VEHNVSGVNPFPFAKYRYRDLAENGRLLIKAYGIRFDIIVFGXAKGFPIITMINISGL 343
Qy      310 AMLGAVTFFCDLLLLLYVDREAHFYARTKYE 339
        ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      344 ALGGMATVLCDDIITCMKKRLRYEKKIK 373

```

US-08-750-134A-7
Sequence 7, Application US/08750134A
Patent No. 5985603
GENERAL INFORMATION:
APPLICANT: VALERA, SOLEDAD
APPLICANT: BUELL, GARY
TITLE OF INVENTION: P2x RECEPTORS (PURINOCCEPTOR
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE P. C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/750,134A
FILING DATE: 22-JAN-1997
CLASSIFICATION: 516
ATTORNEY/AGENT INFORMATION:
NAME: CRAFTFORD, ARTHUR C.
REGISTRATION NUMBER: 25,327
REFERENCE/DOCKET NUMBER: 1430-116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4006
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 388 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-750-134A-7

Query Match	35.7%	Score	794	DB 2	Length	388			
Best Local Similarity	46.7%	Pred. NO.	4.4e-79						
Matches	154	Conservative	55	Mismatches	109	Indels	12	Gaps	4

QY 20 WALLAKKGQEBDLEPQFIIIFKLKGVSVQIKELGNRLMVDVAFVPCPGENNFYLVN 79
Db 46 WVFVWMEKQOEHD - SVWSVYTTTKAKGAVNTVTSQGRIMVADYVLPAGEENSLFIMTN 104
QY 80 FLVTPVQVQGRCPHEHSVPYLANCWVDECPGEGGTHSHGYKTCQCVFNGTARTCEIMS 139
Db 105 MLYTVQVQSTQTEPLD - KTSICNSDACTQGSVDYTHSSGVATRCVCPHEHSVTCVAA 163
QY 140 WCFVESGV - VPSRPLLAQONFTLFIKNTVTFSKNEFNSNALETWDPYFKHCRYPEQF 195

	Query Match	35.6%;	Score 793;	DB 3;	Length 388;	
	Best Local Similarity	46.7%;	Pred. No. 5,7e-79;			
	Matches 154;	Conservative 55;	Mismatches 109;	Indels 12;	Gaps 4	
Oy	20 WALLAKGYOERDLEPOFSITTKLGKSVTOIKELGNFLMDVADFKPDGGENVEFLVTN	79				
	: : : : : : : : : : : : : : : : : : :					
Dd	46 WVFWEKGQYEDTD-SVVSSVTTKAKGAVNTNLSQLGFPIIMVDADYIVIAQEENSJLFIMTN	104				
Oy	80 FLVTPAQVGSCPEHPSVPLANCWDEDCPEGEGSTSHGVKTGCQVVENGRHCRCILMS	139				
	: : : : : : : : : : : : : : : : : : :					
Dd	105 MIVLVNQTSCTPEIIPD-KTISCSDACCTGQSVDTSSHSGAATGCVNPESVKICEVA	163				
Oy	140 MCPVESGV-VPSRDLQAQNFLLFIKNTVTFSEKNFESKSNALETMPDETYPFGHCYEPOF	198				
	: : : : : : : : : : : : : : : : : : :					
Dd	164 MCPENDVGVPPTPAFLKAENFTLLVKNINMYPKNFESKRNLIRLITTSYLKSCLYNNQT	223				
Oy	199 SPYCPVRFRIGDLVAKAGSTFEEDLALLGGSVGI RYHWDCCDLDTGDSCGPHYSFOJUE--	255				
	: : : : : : : : : : : : : : : : : : :					
Dd	224 DPFCPFRLLGTIVDDAGHSFQEMAVEGIMGIOIKMCDNLRPASLICLP RYSFFRLDFRD	283				
Oy	256 -----KSYNRRTATHMMEOPGEARLTLLKYGTGRFDILTLMGOAKFGILPAAVTLGTSA	309				
	: : : : : : : : : : : : : : : : : : :					
Dd	284 LEHVVSQYNRPFAKYIRDLAGKKORLTITKAYGIRFDLIIVGKAKGFIIIPMINVGSGL	343				
Oy	310 AMLGVTFPCDLLILLVYDREAHFYWRITYE	339				
	: : : : : : : : : : : : : : : : : : :					
Dd	344 ALLGVATVLCDVIVILVYCCKKKYYRRDKKK	373				

RESULT 11
 US-08-742-621-3
 ; Sequence 3, Application US/08742e21
 ; Patent No. 5856129

GENERAL INFORMATION:
APPLICANT: HILLMAN, JENNIFER L.
APPLICANT: COLEMAN, ROGER
TITLE OF INVENTION: NOVEL HUMAN PURINOCEPTOR
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: US
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/742,621
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Hillings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0147 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
LIBRARY: GenBank
CLONE: 166438
US-08-742-621-3

Query Match 33.4%; Score 744; DB 2; Length 399;
Best Local Similarity 44.0%; Pred. No. 1.6e-73;
Matches 159; Conservative 56; Mismatches 128; Indels 18; Gaps 9;
QY 20 WLLAKKGVOERDLERPOFSIIITKLKGVSYTQIKELGNRLMDVADPFVKPPQGENVFPLVN 79
DB 47 WFLYKGYQTSS-GLISSVSVKLGAVTQLPGLGPQVADVADVFPAQGDNSFVVMTN 105
QY 80 FLVTPAOGVGRCPHPSVPLANCWVDEDCPEEGGTHSHGVKTGCQCVFNGTHRTCEIWS 139
DB 106 FLVTPQGTQGYCAEHHEGGI--CKEDSGCTPGKAKKAGCIRTGKCVANRNDVTYKTEIIG 163
QY 140 WCPVE-SGVVPSRPLIAQONFTLFIKNTVTSKFNFSKSNALFTWDPYFKHCRYEPOF 198
DB 164 WCPVEVDDDDIPRALIREAENFTLFIKNSISFPKFNRRNLVEEVNAHMKTCLEPHKTL 223
QY 199 SPYCPVFRIGDLVAKAGCFEDLALLGSGVGRVHMDCOLDITGDSGCWHYSGO--LQK 256
DB 224 HPLCPVFOGYGVVQSGQNFSTLAEKGGVVGITIDHDCDDMHVRHCRPTYEHHGLYEER 283
QY 257 S-----YNFRATTHWEOQPGVEARTLLKXGIRFDILVTGQAGKFGILPTAVTLGTGAAMI 312
DB 284 NLSPGNFRFAHFVEN-CTNVRHLFKVGIRFDILVDGAKKFDIIPMTTIGSGIGIF 342
QY 313 GVATVFCDDLLLVYDREAHFY--WRTKYBEAKAPKATANSVRELALASQA-RLAECLELR 369
DB 343 GVATVLCDDLLHLILPKRHYVKKOKKFKYAEKMGGAEE---RDLAATSTLTGLQENMRT 398
QY 370 S 370
DB 399 S 399

RESULT 12
US-08-750-134A-11
Sequence 11, Application US/08750134A
Patent No. 5985603
GENERAL INFORMATION:
APPLICANT: VALERA, SOLEDAD
APPLICANT: BUELL, GARY
TITLE OF INVENTION: P2x RECEPTORS (PURINOCEPTOR FAMILY)
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHIE P. C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/750,134A
FILING DATE: 22-JAN-1997
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: CRAWFORD, ARTHUR C.
REGISTRATION NUMBER: 25,327
REFERENCE/DOCKET NUMBER: 1430-116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4006
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-750-134A-11

Query Match 33.4%; Score 744; DB 2; Length 399;
Best Local Similarity 44.0%; Pred. No. 1.6e-73;
Matches 159; Conservative 56; Mismatches 128; Indels 18; Gaps 9;
QY 20 WLLAKKGVOERDLERPOFSIIITKLKGVSYTQIKELGNRLMDVADPFVKPPQGENVFPLVN 79
DB 47 WFLYKGYQTSS-GLISSVSVKLGAVTQLPGLGPQVADVADVFPAQGDNSFVVMTN 105
QY 80 FLVTPAOGVGRCPHPSVPLANCWVDEDCPEEGGTHSHGVKTGCQCVFNGTHRTCEIWS 139
DB 106 FLVTPQGTQGYCAEHHEGGI--CKEDSGCTPGKAKKAGCIRTGKCVANRNDVTYKTEIIG 163
QY 140 WCPVE-SGVVPSRPLIAQONFTLFIKNTVTSKFNFSKSNALFTWDPYFKHCRYEPOF 198
DB 164 WCPVEVDDDDIPRALIREAENFTLFIKNSISFPKFNRRNLVEEVNAHMKTCLEPHKTL 223
QY 199 SPYCPVFRIGDLVAKAGCFEDLALLGSGVGRVHMDCOLDITGDSGCWHYSGO--LQK 256
DB 224 HPLCPVFOGYGVVQSGQNFSTLAEKGGVVGITIDHDCDDMHVRHCRPTYEHHGLYEER 283
QY 257 S-----YNFRATTHWEOQPGVEARTLLKXGIRFDILVTGQAGKFGILPTAVTLGTGAAMI 312
DB 284 NLSPGNFRFAHFVEN-CTNVRHLFKVGIRFDILVDGAKKFDIIPMTTIGSGIGIF 342
QY 313 GVATVFCDDLLLVYDREAHFY--WRTKYBEAKAPKATANSVRELALASQA-RLAECLELR 369
DB 343 GVATVLCDDLLHLILPKRHYVKKOKKFKYAEKMGGAEE---RDLAATSTLTGLQENMRT 398
QY 370 S 370
DB 399 S 399

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 8, 2005, 14:17:32 ; Search time 162 Seconds
(without alignments)
1046.024 Million cell updates/sec

Title: US-09-820-095B-2
Perfect score: 2226
Sequence: 1 MGSPGATTGGLDLYKTEKM.....TPGWPCPSDTHLPTHSGL 405

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867879 seqs, 418409474 residues
Total number of hits satisfying chosen parameters: 1867879

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/prodata/1/pubppaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/prodata/1/pubppaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/prodata/1/pubppaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/prodata/1/pubppaa/US07_NEW_PUB.pep:*
- 5: /cgn2_6/prodata/1/pubppaa/US08_NEW_PUB.pep:*
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- 8: /cgn2_6/prodata/1/pubppaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/prodata/1/pubppaa/US09_PUBCOMB.pep:*
- 10: /cgn2_6/prodata/1/pubppaa/US09_PUBCOMB.pep:*
- 11: /cgn2_6/prodata/1/pubppaa/US09C_PUBCOMB.pep:*
- 12: /cgn2_6/prodata/1/pubppaa/US09_NEW_PUB.pep:*
- 13: /cgn2_6/prodata/1/pubppaa/US10A_PUBCOMB.pep:*
- 14: /cgn2_6/prodata/1/pubppaa/US10B_PUBCOMB.pep:*
- 15: /cgn2_6/prodata/1/pubppaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/prodata/1/pubppaa/US10E_PUBCOMB.pep:*
- 17: /cgn2_6/prodata/1/pubppaa/US10F_PUBCOMB.pep:*
- 18: /cgn2_6/prodata/1/pubppaa/US10A_NEW_PUB.pep:*
- 19: /cgn2_6/prodata/1/pubppaa/US11A_PUBCOMB.pep:*
- 20: /cgn2_6/prodata/1/pubppaa/US11_NEW_PUB.pep:*
- 21: /cgn2_6/prodata/1/pubppaa/US60_NEW_PUB.pep:*
- 22: /cgn2_6/prodata/1/pubppaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2226	100.0	405	10	US-09-820-095-2
2	2203	99.0	431	10	US-09-820-095-4
3	2203	99.0	431	16	US-10-817-607-11
4	1128.5	50.7	395	15	US-10-817-607-12
5	1080.5	48.5	364	5	US-10-051-874-125
6	825.5	37.1	422	16	US-10-128-558-144
7	822	36.9	422	16	US-10-128-558-145
8	822	36.9	422	16	US-10-370-715B-572
9	822	36.9	422	18	US-10-983-340-31
10	816	36.7	388	9	US-10-989-826-18
11	816	36.7	388	15	US-10-833-082-2
					US-10-455-552-2
					Sequence 2, Appl1
					Sequence 4, Appl1
					Sequence 11, Appl1
					Sequence 12, Appl1
					Sequence 125, Appl1
					Sequence 144, Appl1
					Sequence 145, Appl1
					Sequence 31, Appl1
					Sequence 31, Appl1
					Sequence 31, Appl1
					Sequence 2, Appl1
					Sequence 2, Appl1

12	816	36.7	388	16	US-10-817-607-9	Sequence 9, Appl1
13	816	36.7	388	17	US-10-482-029-257	Sequence 257, Appl1
14	816	36.7	388	17	US-10-676-289-2	Sequence 2, Appl1
15	810	36.4	388	15	US-10-586-414-17	Sequence 17, Appl1
16	803.5	36.1	421	16	US-10-817-607-10	Sequence 10, Appl1
17	744	33.4	399	15	US-10-352-684A-54	Sequence 54, Appl1
18	744	33.4	399	16	US-10-817-607-8	Sequence 8, Appl1
19	744	33.4	399	16	US-10-504-688-4	Sequence 4, Appl1
20	709	31.9	459	14	US-10-345-680-11	Sequence 11, Appl1
21	709	31.9	459	15	US-10-051-874-123	Sequence 123, Appl1
22	709	31.9	459	16	US-10-817-607-6	Sequence 6, Appl1
23	704.5	31.6	397	16	US-10-408-765A-2202	Sequence 2202, Appl1
24	704.5	31.6	397	16	US-10-491-545A-42	Sequence 42, Appl1
25	694	31.2	402	11	US-09-764-875-905	Sequence 905, Appl1
26	694	31.2	404	15	US-10-051-874-124	Sequence 124, Appl1
27	693	31.1	497	15	US-10-051-874-120	Sequence 120, Appl1
28	673.5	30.3	287	15	US-10-455-552-3	Sequence 3, Appl1
29	673.5	30.3	397	16	US-10-817-607-7	Sequence 7, Appl1
30	652.5	29.3	372	18	US-10-504-688-2	Sequence 2, Appl1
31	642.5	28.9	372	18	US-10-504-688-5	Sequence 5, Appl1
32	631	28.3	447	15	US-10-051-874-121	Sequence 121, Appl1
33	631	28.3	447	15	US-10-051-874-122	Sequence 122, Appl1
34	615	27.6	473	15	US-10-051-874-42	Sequence 42, Appl1
35	611.5	27.5	595	16	US-10-408-765A-2166	Sequence 2166, Appl1
36	608.5	27.3	595	16	US-10-622-313-1	Sequence 1, Appl1
37	608.5	27.3	595	16	US-10-789-241-40	Sequence 40, Appl1
38	608.5	27.3	595	18	US-10-825-593-3	Sequence 3, Appl1
39	608.5	27.3	595	18	US-10-825-593-9	Sequence 9, Appl1
40	607.5	27.3	588	16	US-10-825-593-11	Sequence 11, Appl1
41	607.5	27.3	595	16	US-10-817-607-3	Sequence 3, Appl1
42	607.5	27.3	595	16	US-10-817-607-4	Sequence 4, Appl1
43	607.5	27.3	595	18	US-10-825-593-4	Sequence 4, Appl1
44	607.5	27.3	595	18	US-10-825-593-5	Sequence 5, Appl1
45	607.5	27.3	595	18	US-10-825-593-10	Sequence 10, Appl1

ALIGNMENTS

RESULT 1
US-09-820-095-2
; Sequence 2, Application US/09820095
; Publication NO. US20030233668A1
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR
; FILE REFERENCE: CLO01202
; CURRENT FILING DATE: 2001-03-29
; CURRENT FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 405
; TYPE: PRT
; ORGANISM: Human
US-09-820-095-2

Query Match 100.0%; Score 2226; DB 10; length 405;
Best Local Similarity 100.0%; Pred. No. 7e-214;
Matches 405; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGSPGATTGGLDLYKTEKMA LAKKGYORDEPQPSITTKLKGVSVTQIKELGNFLMD 60
DB 1 MGSPGATTGGLDLYKTEKMA LAKKGYORDEPQPSITTKLKGVSVTQIKELGNFLMD 60
QY VADPVKPPQGENVPELVNTFLVTPAQYQGRCPHPSPVPLANCWDEDCPFGEGTSHGV 120
DB VADPVKPPQGENVPELVNTFLVTPAQYQGRCPHPSPVPLANCWDEDCPFGEGTSHGV 120
QY KTGGCVFNQTHRTCEIWSNCPVSGVPSRPPLAQNFTLFIKNTVTSEKFNFSKNA 180

Db 121 KTGOCVFNHRTCEIWSMCPVSGVPSRPLLAQONFTLEIKNTVTFSEKFNFSKNA 180
Qy 181 LETMDPTTFKHCYEBEQSPYCPVFRIGDLVAKAGGFEDLALGSGVGIRVHMDCDLDT 240
Db 181 LETMDPTTFKHCYEBEQSPYCPVFRIGDLVAKAGGFEDLALGSGVGIRVHMDCDLDT 240
Qy 241 GDSGCMPHYSFQLOEKSYNFRATTHWMEOPGVBARLLKLYGIRFDILVTGQAGKFGILIP 300
Db 241 GDSGCMPHYSFQLOEKSYNFRATTHWMEOPGVBARLLKLYGIRFDILVTGQAGKFGILIP 300
Qy 301 TAVTIGTGAAMLGVTFPCDLLLLYVDREAHFYWRKTYEBAKAPKATANSVMRELALASQ 360
Db 301 TAVTIGTGAAMLGVTFPCDLLLLYVDREAHFYWRKTYEBAKAPKATANSVMRELALASQ 360
Qy 361 ARLAECLRRSSAPAPATAAGSQTOTPGMPCPSSDTHLPTHSGL 405
Db 361 ARLAECLRRSSAPAPATAAGSQTOTPGMPCPSSDTHLPTHSGL 405

RESULT 2
US-09-820-095-4
; Sequence 4, Application US/09820095
; Publication No. US20030233668A1
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001202
; CURRENT APPLICATION NUMBER: US/09/820, 095
; CURRENT FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Human
US-09-820-095-4

Query Match 99.0%; Score 2203; DB 10; Length 431;
Best Local Similarity 94.0%; Pred. No. 1.5e-211;

Matches 405; Conservative 0; Mismatches 0; Indels 26; Gaps 1;

Qy 1 MGSFGATTGMLLDYKTEK-----WALLAKKGYORDE 34
Db 1 MGSFGATTGMLLDYKTEKYYMTRMWRVGAHQRLQFGIVVYVVGWALLAKKGYORDE 60
Qy 35 PQFSITTKLKGVSVTQIKELGNRLMDVADFVKRPOGENVFPLVTNPLVTPAQVQGRCPBH 94
Db 61 PQFSITTKLKGVSVTQIKELGNRLMDVADFVKRPOGENVFPLVTNPLVTPAQVQGRCPBH 120
Qy 95 PSVPLANCWVDEDCPEBEGGTHSHGVKTGCQCVFNGTHRTCEIWSMCPVSGVPSRPLL 154
Db 121 PSVPLANCWVDEDCPEBEGGTHSHGVKTGCQCVFNGTHRTCEIWSMCPVSGVPSRPLL 180
Qy 155 AQAONFTLEIKNTVTFSEKFNFSKSNALETMDPTTFYHCHRYEPOFSYCPVFRIGDLVAKA 214
Db 181 AQAONFTLEIKNTVTFSEKFNFSKSNALETMDPTTFYHCHRYEPOFSYCPVFRIGDLVAKA 240
Qy 215 GGTFFEDLALGSGVGIRVHMDCDLDTGDSGCMPHYSFQLOEKSYNFRATTHWMEOPGVEA 274
Db 241 GGTFFEDLALGSGVGIRVHMDCDLDTGDSGCMPHYSFQLOEKSYNFRATTHWMEOPGVEA 300
Qy 275 RTLLKLKYGIRFDILVTGQAGKFGILPTAVTLGTGAAMLGVTFPCDLLLLYVDREAHFYW 334
Db 301 RTLLKLKYGIRFDILVTGQAGKFGILPTAVTLGTGAAMLGVTFPCDLLLLYVDREAHFYW 360
Qy 335 RTKYEBAKAPKATANSVMRELALASQARLAECCLRRSSAPAPATAAGSQTOTPGMPCPSS 394
Db 361 RTKYEBAKAPKATANSVMRELALASQARLAECCLRRSSAPAPATAAGSQTOTPGMPCPSS 420
Qy 395 DTHLPTHSGL 405
|||||

Db 421 DTHLPTHSGL 431

RESULT 3
US-10-817-607-11
; Sequence 11, Application US/10817607
; Publication No. US20040229262A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN P2X7 SPLICED VARIANT,
; FILE REFERENCE: D0272 NP
; CURRENT APPLICATION NUMBER: US/10/817, 607
; CURRENT FILING DATE: 2004-04-02
; PRIOR APPLICATION NUMBER: U.S. 60/460340
; PRIOR FILING DATE: 2003-04-03
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 11
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-817-607-11

Query Match 99.0%; Score 2203; DB 16; Length 431;
Best Local Similarity 94.0%; Pred. No. 1.5e-211;

Matches 405; Conservative 0; Mismatches 0; Indels 26; Gaps 1;

Qy 1 MGSFGATTGMLLDYKTEK-----WALLAKKGYORDE 34
Db 1 MGSFGATTGMLLDYKTEKYYMTRMWRVGAHQRLQFGIVVYVVGWALLAKKGYORDE 60
Qy 35 PQFSITTKLKGVSVTQIKELGNRLMDVADFVKRPOGENVFPLVTNPLVTPAQVQGRCPBH 94
Db 61 PQFSITTKLKGVSVTQIKELGNRLMDVADFVKRPOGENVFPLVTNPLVTPAQVQGRCPBH 120
Qy 95 PSVPLANCWVDEDCPEBEGGTHSHGVKTGCQCVFNGTHRTCEIWSMCPVSGVPSRPLL 154
Db 121 PSVPLANCWVDEDCPEBEGGTHSHGVKTGCQCVFNGTHRTCEIWSMCPVSGVPSRPLL 180
Qy 155 AQAONFTLEIKNTVTFSEKFNFSKSNALETMDPTTFYHCHRYEPOFSYCPVFRIGDLVAKA 214
Db 181 AQAONFTLEIKNTVTFSEKFNFSKSNALETMDPTTFYHCHRYEPOFSYCPVFRIGDLVAKA 240
Qy 215 GGTFFEDLALGSGVGIRVHMDCDLDTGDSGCMPHYSFQLOEKSYNFRATTHWMEOPGVEA 274
Db 241 GGTFFEDLALGSGVGIRVHMDCDLDTGDSGCMPHYSFQLOEKSYNFRATTHWMEOPGVEA 300
Qy 275 RTLLKLKYGIRFDILVTGQAGKFGILPTAVTLGTGAAMLGVTFPCDLLLLYVDREAHFYW 334
Db 301 RTLLKLKYGIRFDILVTGQAGKFGILPTAVTLGTGAAMLGVTFPCDLLLLYVDREAHFYW 360
Qy 335 RTKYEBAKAPKATANSVMRELALASQARLAECCLRRSSAPAPATAAGSQTOTPGMPCPSS 394
Db 361 RTKYEBAKAPKATANSVMRELALASQARLAECCLRRSSAPAPATAAGSQTOTPGMPCPSS 420
Qy 395 DTHLPTHSGL 405
Db 421 DTHLPTHSGL 431
|||||

RESULT 4
US-10-817-607-12
; Sequence 12, Application US/10817607
; Publication No. US20040229262A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN P2X7 SPLICED VARIANT,
; FILE REFERENCE: D0272 NP
; CURRENT APPLICATION NUMBER: US/10/817, 607
; CURRENT FILING DATE: 2004-04-02
; PRIOR APPLICATION NUMBER: U.S. 60/460340

; PRIOR FILING DATE: 2003-04-03
 ; NUMBER OF SEQ ID NOS: 96
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 12
 ; LENGTH: 395
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: P2X Consensus Polypeptide Sequence
 US-10-817-607-12

Query Match 50.7%; Score 1128.5; DB 16; Length 395;
 Best Local Similarity 55.7%; Pred. NO. 6,7e-104;
 Matches 201; Conservative 53; Mismatches 90; Indels 17; Gaps 5;

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Qy 9 GW---GLDYKTEKMLAKKGYQERDLEPQFSITTKLKV---SYVQIKELGRMLDVA 62
Db 33 GWAASGAGTSLSHRYVFLMEKGYODRDTSPSSVITVKGVAMTNTVQTSMLGNRVMDVA 92
Qy 63 DFKPPOGENVFLVNTFLVTPAQVGRCEHPSPVPLANCWDEDECEGEGTSHGVKT 122
Db 93 DYIIPPOGENVFLVNTMTVTPNTOGYCPHPREVPOGCKSDSDCHAGEAGMHGHIKT 152
Qy 123 GQCVVENGT-RTCEIWSMCPVE-SGVPSRPLIAQONFTLTKNTVTSKFNFSKNA 180
Db 153 GRCVRFNHSRRTCEIWMCPVEDDDHVPMPMLKEAENFTIIFKNSIMFPKFNFSKNI 212
Qy 181 LETMDPTVFHCRCYEPQSPYCPYRIGDLVAKAGTFEDLALGSGVGRVHMDCLDT 240
Db 213 LEMWMDTYMHCHCHPHRPHKPCPIFRIGDIVEWAGQFODLHNGVIGIQIMWDCDLW 272
Qy 241 GDSGCMWHSYFQLOEK-----SYNFRATHWMEOPGVEARTLLKLVGIRFDILVTG 291
Db 273 AMHCHWYFHFHLDRKHEHNSPGYNFRPAKYWNNGVEYTTLKAIGIRDVVHG 332
Qy 292 QAKFGILPFAVLTGTGAAMLGVVTFPCDILLLVYDREAHFYWRTKYEAKAPKATANSV 351
Db 333 KAKGFDIIPMTINISGLAMWGVTFPCDWILLVCMKKRHYHMKREYEDMKGANSE 392
Qy 352 W 352
Db 393 W 393
  
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RESULT 5

US-10-051-874-125

; Sequence 125, Application US/10051874
 ; Publication No. US20040005557A1
 ; GENERAL INFORMATION:

; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Alsobrook II, John P
 ; APPLICANT: Coleman, Steven D
 ; APPLICANT: Spytek, Kimberly A
 ; APPLICANT: Boldog, Ferenc
 ; APPLICANT: Vermet, Corine AM
 ; APPLICANT: Li, Li
 ; APPLICANT: Shenoy, Suresh J
 ; APPLICANT: Gasman, Stacie J
 ; APPLICANT: Guo, Xiaojia Saeba
 ; APPLICANT: Edinger, Shlomit R
 ; APPLICANT: MacDougall, John R
 ; APPLICANT: Malyanekar, Uriel M
 ; APPLICANT: Paturajan, Meera
 ; APPLICANT: Shinkets, Richard A
 ; APPLICANT: Pena, Carol BA
 ; APPLICANT: Tchernev, Velizar T
 ; APPLICANT: Zerhusen, Bryan D
 ; APPLICANT: Miller, Isabelle
 ; APPLICANT: Miller, Charles E
 ; APPLICANT: Lepley, Denise M
 ; APPLICANT: Smithson, Glenda
 ; APPLICANT: Baumgartner, Jason C
 ; APPLICANT: Herrman, John L

; APPLICANT: Peyman, John A
 ; APPLICANT: Gorman, Linda
 ; APPLICANT: Mezes, Peter D
 ; APPLICANT: Kekuda, Ramesh
 ; APPLICANT: Taupier Jr, Raymond J
 ; APPLICANT: Gerlach, Valerie
 ; APPLICANT: Grose, William M
 ; APPLICANT: Liu, Xiaohong
 ; APPLICANT: Ellerman, Karen
 ; APPLICANT: Rothenberg, Mark
 ; APPLICANT: Stone, David J
 ; APPLICANT: Burgess, Catherine E
 ; TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
 ; FILE OF INVENTION: USING THE SAME
 ; FILE REFERENCE: 21402-245

; CURRENT APPLICATION NUMBER: US/10/051,874
 ; CURRENT FILING DATE: 2002-09-25
 ; PRIOR APPLICATION NUMBER: 60/268,595
 ; PRIOR FILING DATE: 2001-02-14
 ; PRIOR APPLICATION NUMBER: 60/325,306
 ; PRIOR FILING DATE: 2001-09-27
 ; PRIOR APPLICATION NUMBER: 60/262,587
 ; PRIOR FILING DATE: 2001-01-18
 ; PRIOR APPLICATION NUMBER: 60/272,409
 ; PRIOR FILING DATE: 2001-02-28
 ; PRIOR APPLICATION NUMBER: 60/262,454
 ; PRIOR FILING DATE: 2001-01-18
 ; PRIOR APPLICATION NUMBER: 60/276,777
 ; PRIOR FILING DATE: 2001-03-16
 ; PRIOR APPLICATION NUMBER: 60/291,672
 ; PRIOR FILING DATE: 2001-05-17
 ; PRIOR APPLICATION NUMBER: 60/330,336
 ; PRIOR FILING DATE: 2001-10-18
 ; PRIOR APPLICATION NUMBER: 60/265,530
 ; PRIOR FILING DATE: 2001-01-31
 ; PRIOR APPLICATION NUMBER: 60/261,376
 ; PRIOR FILING DATE: 2001-01-16
 ; NUMBER OF SEQ ID NOS: 269
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 125
 ; LENGTH: 364
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: P2X_receptor
 ; OTHER INFORMATION: domain sequence
 US-10-051-874-125

Query Match

48.5%; Score 1080.5; DB 15; Length 364;
 Best Local Similarity 56.1%; Pred. No. 3.9e-99;

Matches 203; Conservative 44; Mismatches 80; Indels 35; Gaps 4;

```

Qy 14 DYTERK-----MALAKKGYQERDLEPQFSITTKLGVS 47
Db 2 DYTTPKYVVVRNKKVGLNRLVOLLIVYVGVFLPEKGYQSDTSLSQSVITKVGVA 61
Qy 48 VYQIKELGNLMDVADPFAKPOGENVFLVNTFLVTPAQVGRCEHPSPVPLANCWDED 107
Db 62 VYVTSKFNFSKNALETFWDPFYHCRYPQSPYCPYRIGDLVAKAGTFEDLALGG 121
Qy 108 CPEGEGTSHGVKTGQCVVFNGT-HRTCEIWSMCPVESGVPSRPLIAQONFTLFIKN 166
Db 122 CTAGEAGTHONGIKTGRCAVAFNGSVRTCEIFAMCPVEVTVNPNPLKKAENFTIITKN 181
Qy 167 VYVTSKFNFSKNALETFWDPFYHCRYPQSPYCPYRIGDLVAKAGTFEDLALGG 226
Db 182 SIRFPKFNFSKNALETKDTYLLKCHRFPTNDPCPIFRIGDVVEKAGQDFODLALKG 241
Qy 227 SVGIRVHMDCLDTGSGCMWHSYFQ-----LQKRS-----YNFRATHWMEOPGVEARTLL 278
Db 242 VIGIITNMWDCDLKAASECPHYSFRRLDNKKKSVSPGYNFRPAKYWNNGVEYRTLL 301
Qy 279 KLVGIRFDILVTGQAGKFGILPFAVLTGTGAAMLGVVTFPCDILLLVYDREAHFYWRTKY 338
  
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RESULT 8

US-10-983-340-31
Sequence 31, Application US/10983340
Publication No. US20050238649A1
GENERAL INFORMATION:
APPLICANT: Doronina, Svetlana O.
APPLICANT: Toki, Brian E.
APPLICANT: Senter, Peter D.
APPLICANT: Ebens, Allen J.
APPLICANT: Polakowski, Paul.
APPLICANT: Polakowski, Mark X.
APPLICANT: Spencer, Susan D.
APPLICANT: Kline, Toni Beth
TITLE OF INVENTION: MONOMETHYLALANINE COMPOUNDS CAPABLE OF CONJUGATION TO LIGANDS
FILE REFERENCE: 018891-001020US
CURRENT APPLICATION NUMBER: US/10/983,340
CURRENT FILING DATE: 2004-11-05
PRIOR APPLICATION NUMBER: US 60/598,899
PRIOR FILING DATE: 2004-08-04
PRIOR APPLICATION NUMBER: US 60/557,116
PRIOR FILING DATE: 2004-03-26
PRIOR APPLICATION NUMBER: US 60/518,534
PRIOR FILING DATE: 2003-11-06
NUMBER OF SEQ ID NOS: 35
SEQ ID NO 31
LENGTH: 422
TYPE: PRT
ORGANISM: Homo sapien
US-10-983-340-31

Query Match 36.9%; Score 822; DB 18; Length 422;
Best Local Similarity 40.3%; Pred. No. 3.8e-73;

Matches 173; Conservative 60; Mismatches 120; Indels 76; Gaps 9;

QY 12 LLDYKTEK-----WALLAKGYOERLEPOFSITTKLG 45
DB 13 LPDYKTEKYIAKNNKVGILYRLQASILAYLVWVFLIKKGYQDVDTSLQSANITVKG 72
QY 46 VSTYQIKELNRLMDVADFYKPPROGENVFVLNFTLVTPAOVGRCPEHSPVLANCWD 105
DB 73 VAFNTNSDLQRIWDVADYVIPAQGENVFVVTNLITVPORQVCAENEGIDPGACSKD 132
QY 106 EDCPEBEGCTHSHGVKTGCQVFNCGTHR--TCEIWSMCPVSGVPSRPLLAQONFTLFI 164
DB 133 SDCHAGEAVTAGNGVKTGRCLRRGNLARGTCEIFAMCPLTSSRPBPFLKEADFTIFI 192
QY 165 KNTVTSKFNFSKSNALETWDPYFKHGRYEPQSPYCPVFRIGDLVAKAGTFEDIAL 224
DB 193 KNHIRFKEFNFSKSNVNDVDRSLKSGHGPKNHXCPIFRIGSVIRWAGSDFOIDIALR 251
QY 225 GGSVGIRVHWDCLDITDSCGWPYHSF-QLOEK-----SYNFRATHWMEQGVART 276
DB 252 GGVIAGINIEWNCIDLKAASECHPHYSFSLDNKLSKSVSSGVNFRFARYRDAAGVEFRT 311
QY 277 LKLKYGIRFDILVTGQAGKFGILPTAVTLGTGAAMLGVTFFCDLLLLYVDREAHFYWRT 336
DB 312 LMKAYGIRFVWVWNGK-----AFCDLVILYIKKREFYRDK 349
QY 337 KYEBAKPKATANSVWRELALASQARLAECRLRSSAPA-----PTATAAGSQ 383
DB 350 KYEVRRLDSSQEADE---ASGLGISEQL--TSRGLGMPQEQLOEPPEAKRSSS 404
QY 384 TQTPGMPCP 392
DB 405 QKNGSVCP 413

RESULT 9

US-10-989-826-18
Sequence 18, Application US/10989826
Publication No. US20050238650A1

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.
APPLICANT: Crowley, Craig
APPLICANT: De Sauvage, Frederic J.
APPLICANT: Eaton, Daniel L.
APPLICANT: Ebens, Allen
APPLICANT: Polson, Andrew
APPLICANT: Smith, Victoria
TITLE OF INVENTION: Compositions and Methods for the Treatment of Tumor of
FILE REFERENCE: P9105RIUS
CURRENT APPLICATION NUMBER: US/10/989,826
CURRENT FILING DATE: 2004-11-16
PRIOR APPLICATION NUMBER: US 60/520,842
PRIOR FILING DATE: 2003-11-17
PRIOR APPLICATION NUMBER: US 60/532,426
PRIOR FILING DATE: 2003-12-24
NUMBER OF SEQ ID NOS: 75
SEQ ID NO 18
LENGTH: 422
TYPE: PRT
ORGANISM: Homo sapiens
US-10-989-826-18

Query Match 36.9%; Score 822; DB 18; Length 422;
Best Local Similarity 40.3%; Pred. No. 3.8e-73;

Matches 173; Conservative 60; Mismatches 120; Indels 76; Gaps 9;

QY 12 LLDYKTEK-----WALLAKGYOERLEPOFSITTKLG 45
DB 13 LPDYKTEKYIAKNNKVGILYRLQASILAYLVWVFLIKKGYQDVDTSLQSANITVKG 72
QY 46 VSTYQIKELNRLMDVADFYKPPROGENVFVLNFTLVTPAOVGRCPEHSPVLANCWD 105
DB 73 VAFNTNSDLQRIWDVADYVIPAQGENVFVVTNLITVPORQVCAENEGIDPGACSKD 132
QY 106 EDCPEBEGCTHSHGVKTGCQVFNCGTHR--TCEIWSMCPVSGVPSRPLLAQONFTLFI 164
DB 133 SDCHAGEAVTAGNGVKTGRCLRRGNLARGTCEIFAMCPLTSSRPBPFLKEADFTIFI 192
QY 165 KNTVTSKFNFSKSNALETWDPYFKHGRYEPQSPYCPVFRIGDLVAKAGTFEDIAL 224
DB 193 KNHIRFKEFNFSKSNVNDVDRSLKSGHGPKNHXCPIFRIGSVIRWAGSDFOIDIALR 251
QY 225 GGSVGIRVHWDCLDITDSCGWPYHSF-QLOEK-----SYNFRATHWMEQGVART 276
DB 252 GGVIAGINIEWNCIDLKAASECHPHYSFSLDNKLSKSVSSGVNFRFARYRDAAGVEFRT 311
QY 277 LKLKYGIRFDILVTGQAGKFGILPTAVTLGTGAAMLGVTFFCDLLLLYVDREAHFYWRT 336
DB 312 LMKAYGIRFVWVWNGK-----AFCDLVILYIKKREFYRDK 349
QY 337 KYEBAKPKATANSVWRELALASQARLAECRLRSSAPA-----PTATAAGSQ 383
DB 350 KYEVRRLDSSQEADE---ASGLGISEQL--TSRGLGMPQEQLOEPPEAKRSSS 404
QY 384 TQTPGMPCP 392
DB 405 QKNGSVCP 413

RESULT 10

US-09-833-082-2
Sequence 2, Application US/09833082
Patent No. US20020151480A1
GENERAL INFORMATION:
APPLICANT: Chun, Miyoung
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
FILE REFERENCE: NMT-227
CURRENT APPLICATION NUMBER: US/09/833,082
CURRENT FILING DATE: 2001-04-10
NUMBER OF SEQ ID NOS: 2


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OY      80 FLVTPAQVOGRCP EHPHSVPLANCWVEDDCPEGEGETHSHGVKGTQCVFNGTHRTCEIMS 13
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Matches 154; Conservative 56; Mismatches 108; Indels 12; Gaps 4


```
Db      480 TGTAAAAACAGGCCAGTGTGTGTTCAATGGGACCACAGGACCTGTGAGATCTGGAG 539
Qy      457 TTGGTCCCAAGTGGAGATGGCGTTGTGCTCGAGAGGCCCTGTGGCCCGAGGCCAGAA 516
Db      540 TTGGTGGCCCGTGGAGATGGCGTTGTGCTCGAGAGGCCCTGTGGCCCGAGGCCAGAA 599
Qy      517 CTTTCAACTGTTCATCAAAAACACAGTCACTTCAGCAAGTTCACCTTCTTAAGTCAA 576
Db      600 CTTTCAACTGTTCATCAAAAACACAGTCACTTCAGCAAGTTCACCTTCTTAAGTCAA 659
Qy      577 TGCCTTGGAGACCTGGGAGCCCACTATTTTAAGCACTGGCGGTAAAGCAACATTCAG 636
Db      660 TGCCTTGGAGACCTGGGAGCCCACTATTTTAAGCACTGGCGGTAAAGCAACATTCAG 719
Qy      637 CCCCTACTGTCCCGTGTTCGCAATGGGAGACTGTGGCCCAAGGCTTGGAGGACCTTGA 696
Db      720 CCCCTACTGTCCCGTGTTCGCAATGGGAGACTGTGGCCCAAGGCTTGGAGGACCTTGA 779
Qy      697 GGAAGCTGGCTTGTCTGGGTGGCTCTGTAGGCAATCAGATTCAGTGGATTTGAAGTGA 756
Db      780 GGAAGCTGGCTTGTCTGGGTGGCTCTGTAGGCAATCAGATTCAGTGGATTTGAAGTGA 839
Qy      757 CACCGGGAGACTTGGGCTGGCTGCTCACTTCTTCAAGTCAAGAGAGAGAGTCA 816
Db      840 CACCGGGAGACTTGGGCTGGCTGCTCACTTCTTCAAGTCAAGAGAGAGAGTCA 899
Qy      817 CTTTCAAGGACAGCACTCACTGTGTGGAGCAACCGGGGTGTGAAGGCCCGCACTTGA 876
Db      900 CTTTCAAGGACAGCACTCACTGTGTGGAGCAACCGGGGTGTGAAGGCCCGCACTTGA 959
Qy      877 GCTCTATGGAATCCGCTTGCACATCTCTGTACCGGGAGAGAGAGTTCGGGCTCAT 936
Db      960 GCTCTATGGAATCCGCTTGCACATCTCTGTACCGGGAGAGAGAGTTCGGGCTCAT 1019
Qy      937 CCCCAGGCGCGGTACACTGGGAGCCCGGGAGACTTGGGTGGGCTGTACCTTTTTCG 996
Db      1020 CCCCAGGCGCGGTACACTGGGAGCCCGGGAGACTTGGGTGGGCTGTACCTTTTTCG 1079
Qy      997 TGAAGCTGTAAGTCTGTATGTGATAGAGAGCCCAATTTTACTGTGAGAGCAAGATGA 1056
Db      1080 TGAAGCTGTAAGTCTGTATGTGATAGAGAGCCCAATTTTACTGTGAGAGCAAGATGA 1139
Qy      1057 GGAAGCCCAAGGCCCGCAAAAGCAACCGCAACTGTGTGTGGAGAGCTGGCCCTTGATC 1116
Db      1140 GGAAGCCCAAGGCCCGCAAAAGCAACCGCAACTGTGTGTGGAGAGCTGGCCCTTGATC 1199
Qy      1117 CCAAGGCCCAAGTGGCGGAGTGGCTCAGAGGAGACTCAGCACTGTGACCCAGGCCACTGC 1176
Db      1200 CCAAGGCCCAAGTGGCGGAGTGGCTCAGAGGAGACTCAGCACTGTGACCCAGGCCACTGC 1259
Qy      1177 TGCCTGGAGTCAAGACACAGACACAGAGATGGCTTCCAAAGTTCTGACACCCACTTGCC 1236
Db      1260 TGCCTGGAGTCAAGACACAGACACAGAGATGGCTTCCAAAGTTCTGACACCCACTTGCC 1319
Qy      1237 AACCCATTCGGGAGGCTGTAGCCGTTCCCTGTGTGTTGAGATTTGGGGCTTGGAGGG 1296
Db      1320 AACCCATTCGGGAGGCTGTAGCCGTTCCCTGTGTGTTGAGATTTGGGGCTTGGAGGG 1379
Qy      1297 CCGGGGCTTGGCTTGGGAGATCTCAAGATGAGGCCCAAGCACTGAGATTTGGGGTTCGAA 1356
Db      1380 CCGGGGCTTGGCTTGGGAGATTTCAAGAGTGAAGGCCCAAGCACTGAGATTTGGGGTTCGAA 1439
Qy      1357 TCCACCTTGAACCCCGAGCAGTCCCTCCCTGACTCCCACTTGGATGGAGGTCCTGC 1416
Db      1440 TCCACCTTGAACCCCGAGCAGTCCCTCCCTGACTCCCACTTGGATGGAGGTCCTGC 1499
Qy      1417 CTCAGGAGCCATGAGATTCGGCTGTGTTTGAAGAGCGGACAGAACTGACCCGTGAG 1476
Db      1500 CTCAGGAGCCATGAGATTCGGCTGTGTTTGAAGAGCGGACAGAACTGACCCGTGAG 1559
Qy      1477 ACTGGAGAGCCCAAGAGGCACTGTATTTGAGAGGCTTCGACTGTCATGTGGAGGGGCTC 1536
Db      1560 ACTGGAGAGCCCAAGAGGCACTGTATTTGAGAGGCTTCGACTGTCATGTGGAGGGGCTC 1619
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Qy      1537 CTGCTGCTGTGGGCGCTGGAGGTCCTCTCCAGTGTCTGTGCTCCCAAGTTCCTTACAG 1596
Db      1620 CTGCTGCTGTGGGCGCTGGAGGTCCTCTCCAGTGTCTGTGCTCCCAAGTTCCTTACAG 1679
Qy      1597 AGGTATGCTTACCAAGCTG 1614
Db      1680 AGGTATGCTTACCAAGCTG 1697

RESULT 2
US-09-191-136-30
; Sequence 30, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Lynch, Kevin J.
; APPLICANT: Burgard, Edward C.
; TITLE OF INVENTION: Nucleic Acids Encoding A Functional
; TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production
; TITLE OF INVENTION: And Use Thereof
; FILE REFERENCES: 6293 US, P1
; CURRENT APPLICATION NUMBER: US/09/191,136B
; EARLIER FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 09/008,526
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 09/008,185
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,298
; EARLIER FILING DATE: 1998-01-16
; EARLIER APPLICATION NUMBER: US 60/071,669
; EARLIER FILING DATE: 1998-01-16
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PaeSeq for Windows Version 3.0
; SEQ ID NO 30
; LENGTH: 1360
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Sequencing Primer (polynucleotide)
US-09-191-136-30

Query Match      43.2%; Score 1162.4; DB 3; Length 1360;
Best Local Similarity 99.9%; Pred. No. 1,1e-288;
Matches 1163; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      97 GTGGGCTCTCTGCGCAAAAAGGCTACAGGAGCGGACCTGGAACCCCAAGTTTTCAT 156
Db      180 GTGGGCGTCTCTGCGCAAAAAGGCTACAGGAGCGGACCTGGAACCCCAAGTTTTCAT 239
Qy      157 CATCACAAACCTCAAAAGGGGTTTCGTCATCAGATCAAGAGCTTGGAAACCGGCTGTG 216
Db      240 CATCACAAACCTCAAAAGGGGTTTCGTCATCAGATCAAGAGCTTGGAAACCGGCTGTG 299
Qy      217 GGATGAGCGCACTTCGTGAAGCAACCTCAGGAGAGAGAGCGTTCCTTGTGAGCA 276
Db      300 GGATGAGCGCACTTCGTGAAGCAACCTCAGGAGAGAGAGCGTTCCTTGTGAGCA 359
Qy      277 CTTTCTTGTAGACGCCAAGTTCAAGGAGATGCCAGAGCAACCCGTCGTCCTACT 336
Db      360 CTTTCTTGTAGACGCCAAGTTCAAGGAGATGCCAGAGCAACCCGTCGTCCTACT 419
Qy      337 GGCTAACTGCTGGGTTCAGAGAGATGCTGCCGAGAGGAGAGGACACACAGCCACCG 396
Db      420 GGCTAACTGCTGGGTTCAGAGAGATGCTGCCGAGAGGAGAGGACACACAGCCACCG 479
Qy      397 TGTAAAAACAGGCCAGTGTGTGTTCAATGAGGCCACAGACCTGTGAGATCTGGAG 456
Db      480 TGTAAAAACAGGCCAGTGTGTGTTCAATGAGGCCACAGACCTGTGAGATCTGGAG 539
Qy      457 TTGGTCCCAAGTGGAGTGGCGTTGTGCTTGAAGGCCCTGTGGCCCAAGCCCAAGAA 516
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Db      540 TTGGTGCCAGTAGAGAGTGCGCTGTGCTCGAGGCGCCCTGCTGAGCCAGGAA 599
Qy      517 |CTTACACCTGTTTCATCAAAAACACGACCTTCAGAGAACTTCACTTCTTAAGTCAA 576
Db      600 |CTTACACCTGTTTCATCAAAAACACGACCTTCAGAGAACTTCACTTCTTAAGTCAA 659
Qy      577 |TGCCTTGAAGACCTGGAGCCCACTATTTTAAGCACTGCGCATATGAACCAATTCAG 636
Db      660 |TGCCTTGAAGACCTGGAGCCCACTATTTTAAGCACTGCGCATATGAACCAATTCAG 719
Qy      637 |CCCCCTACTGCTCCGCTGTTCCGCACTTGGGAGCACTGCGGCAAGCTGAGGAGCTTTCGA 696
Db      720 |CCCCCTACTGCTCCGCTGTTCCGCACTTGGGAGCACTGCGGCAAGCTGAGGAGCTTTCGA 779
Qy      697 |GGACCTGCGCTTGTGGGTGGCTGTAGGATAGAGATTCACTGGGATTTGTCCTGGA 756
Db      780 |GGACCTGCGCTTGTGGGTGGCTGTAGGATAGAGATTCACTGGGATTTGTCCTGGA 839
Qy      757 |CACCAGGAGACTGTGGCTGTGGCTCACTACTCTTCCAGCTGAGAGAAAGACTACAA 816
Db      840 |CACCAGGAGACTGTGGCTGTGGCTCACTACTCTTCCAGCTGAGAGAAAGACTACAA 899
Qy      817 |CTTCAGAGACCACTCACTAGTGGAGCAACCGGAGTGTGAGAGCCCGCACTTGTCAA 876
Db      900 |CTTCAGAGACCACTCACTAGTGGAGCAACCGGAGTGTGAGAGCCCGCACTTGTCAA 959
Qy      877 |GCTCTATGGAATCCGCTTCCACATCTCTGTACACCGGAGAGGAGGAAATTGGGCTCAT 936
Db      960 |GCTCTATGGAATCCGCTTCCACATCTCTGTACACCGGAGAGGAGGAAATTGGGCTCAT 1019
Qy      937 |CCCCAGGCGCTCACTAGTGGAGCAACCGGAGAGCTTGGGAGCTTGTCACTTTTCTG 996
Db      1020 |CCCCAGGCGCTCACTAGTGGAGCAACCGGAGAGCTTGGGAGCTTGTCACTTTTCTG 1079
Qy      997 |TGAAGCTGCTACTGTGTATGTAGTAGAAGACCATTCTTACTGAGAGCAAAATGTA 1056
Db      1080 |TGAAGCTGCTACTGTGTATGTAGTAGAAGACCATTCTTACTGAGAGCAAAATGTA 1139
Qy      1057 |GGAGGCGCAAGGCGCCGAAAGCAACCGCACTCTGTGTGTGAGGAGAGCTGGCCCTTGCATC 1116
Db      1140 |GGAGGCGCAAGGCGCCGAAAGCAACCGCACTCTGTGTGTGAGGAGAGCTGGCCCTTGCATC 1199
Qy      1117 |CGAAGCCGCACTGCTGCGAGTCCCTCAGACGAGGCTCAGACCTGCAACCCAGGCACTGC 1176
Db      1200 |CGAAGCCGCACTGCTGCGAGTCCCTCAGACGAGGCTCAGACCTGCAACCCAGGCACTGC 1259
Qy      1177 |TGCTGGAGAGTCAGACAGACACCAAGATGAGCCCTGTCCAAAGTTCTGACACCACTTGCC 1236
Db      1260 |TGCTGGAGAGTCAGACAGACACCAAGATGAGCCCTGTCCAAAGTTCTGACACCACTTGCC 1319
Qy      1237 |AACCATTCCGGAGAGCTGTAGCC 1260
Db      1320 |AACCATTCCGGAGAGCTGTAGCC 1343

RESULT 3
US-09-381-681-1
; Sequence 1, Application US/09381681
; Patent No. 6255472
; GENERAL INFORMATION:
; APPLICANT: TAKINO, Takashi
; APPLICANT: NAKAMURA, Yusuke
; TITLE OF INVENTION: HUMAN GENES
; FILE REFERENCE: 055876
; CURRENT APPLICATION NUMBER: US/09/381,681
; CURRENT FILING DATE: 2000-01-10
; EARLIER APPLICATION NUMBER: JPA 9-093044
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1293
; TYPE: DNA
```

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; ORGANISM: Human
US-09-381-681-1
Query Match 42.9%; Score 1155.8; DB 3; Length 1293;
Best Local Similarity 99.8%; Pred. No. 5.3e-287;
Matches 1157; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      97 |GTGGGCTCTCTCGCCAAAAGGCTTACAGAGCGGGAGCCTGGAACCCAGATTTTCAT 156
Db      135 |GTGGGCTCTCTCGCCAAAAGGCTTACAGAGCGGGAGCCTGGAACCCAGATTTTCAT 194
Qy      157 |CATACCAAACTCAAAAGGGTTTCCGTACTCAATCAAGAGCTTGAAGCCGCTGTG 216
Db      195 |CATACCAAACTCAAAAGGGTTTCCGTACTCAATCAAGAGCTTGAAGCCGCTGTG 254
Qy      217 |GATGTGCGGCACTTGTGAAAGCCACTCAGGAGAGAAAGTGTCTTCTTGTGTGACAA 276
Db      255 |GATGTGCGGCACTTGTGAAAGCCACTCAGGAGAGAAAGTGTCTTCTTGTGTGACAA 314
Qy      277 |CTTCTTGTAGAGCGCAAGCCCAAGTTTCAAGGAGATGCGCAGAGCAACCGTCCGCACT 336
Db      315 |CTTCTTGTAGAGCGCAAGCCCAAGTTTCAAGGAGATGCGCAGAGCAACCGTCCGCACT 374
Qy      337 |GGCTAACTGTGGGTGACAGAGACTGCCCCGAAGGGAGGAGGCAACACAGCCACGG 396
Db      375 |GGCTAACTGTGGGTGACAGAGACTGCCCCGAAGGGAGGAGGCAACACAGCCACGG 434
Qy      397 |TGTAATAACAGGCGAGTGTGTGTTCATATGGAGCCCAAGACCTGTAGATCTGAGAG 456
Db      435 |TGTAATAACAGGCGAGTGTGTGTTCATATGGAGCCCAAGACCTGTAGATCTGAGAG 494
Qy      457 |TTGGTCCCGAGTGGAGAGTGGCGGTGAGCCCTGAGAGCCCTGTGGCCCGAGGCCGAA 516
Db      495 |TTGGTCCCGAGTGGAGAGTGGCGGTGAGCCCTGAGAGCCCTGTGGCCCGAGGCCGAA 554
Qy      517 |CTTACACCTGTTTCATCAAAAACACGACCTTCAGAGAACTTCACTTCTTAAGTCAA 576
Db      555 |CTTACACCTGTTTCATCAAAAACACGACCTTCAGAGAACTTCACTTCTTAAGTCAA 614
Qy      577 |TGCTTGAAGACTGGGAGCCCACTTATTTTAAGCACTGCCGCTGTATACCAATTCAG 636
Db      615 |TGCTTGAAGACTGGGAGCCCACTTATTTTAAGCACTGCCGCTGTATACCAATTCAG 674
Qy      637 |CCCCCTACTGCTCCGCTGTTCCGCACTTGGGAGCACTGCGGCAAGCTGAGGAGCTTTCGA 696
Db      675 |CCCCCTACTGCTCCGCTGTTCCGCACTTGGGAGCACTGCGGCAAGCTGAGGAGCTTTCGA 734
Qy      697 |GGAAGCTGAGTGTGGTGGGCTCTGAGGATCAGAGTTCACTGGGATTTGTGACTGGA 756
Db      735 |GGAAGCTGAGTGTGGTGGGCTCTGAGGATCAGAGTTCACTGGGATTTGTGACTGGA 794
Qy      757 |CACCAGGAGCTTGGCTGTGGCTCACTACTCTTCCAGCTGAGAGAAAGACTTCAA 816
Db      795 |CACCAGGAGCTTGGCTGTGGCTCACTACTCTTCCAGCTGAGAGAAAGACTTCAA 854
Qy      817 |CTTCAGAGACCACTCACTAGTGGAGCAACCGGAGTGTGGAAGCCCGCAACCTGTCAA 876
Db      855 |CTTCAGAGACCACTCACTAGTGGAGCAACCGGAGTGTGGAAGCCCGCAACCTGTCAA 914
Qy      877 |GCTCTATGGAATCCGCTTCCAGATCTCTGTACCCGAGCAGGCAAGATTTGGGCTCAT 936
Db      915 |GCTCTATGGAATCCGCTTCCAGATCTCTGTACCCGAGCAGGCAAGATTTGGGCTCAT 974
Qy      937 |CCCCAGGCGCTCACTAGGAGCCCGGAGAGCTTGGCTGAGGCTCACTTTTCTG 996
Db      975 |CCCCAGGCGCTCACTAGGAGCCCGGAGAGCTTGGCTGAGGCTCACTTTTCTG 1034
Qy      997 |TGAAGCTGCTACTGTGTATGTAGTAGAAGCCCAATTTCACTGAGAGCAAAATGTA 1056
Db      1035 |TGAAGCTGCTACTGTGTATGTAGTAGAAGCCCAATTTCACTGAGAGCAAAATGTA 1094
Qy      1057 |GGAAGCCAAAGGCCCGAAGCAACCGCAACTCTGTGTGAGGAGCTGGCCCTTGCATC 1116
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Db 1095 GGAGGCCAAGCCCGGAAAGCAACCGGCAACTGTGTGTGAGGAGTGGCCCTTGATC 1154
Qy 1117 CCAAGCCCGACTGGCGAGTGGCTTCAGACGAGAGTGCACCTGCAACCGGCACTGC 1176
Db 1155 CCAAGCCCGACTGGCGAGTGGCTTCAGACGAGAGTGCACCTGCAACCGGCACTGC 1214
Qy 1177 TGTGTGAGTTCAGACACAGACACAGAGTGGCTGTCCAAAGTTCTGACACCACTTGGC 1236
Db 1215 TGTGTGAGTTCAGACACAGACACAGAGTGGCTGTCCAAAGTTCTGACACCACTTGGC 1274
Qy 1237 AACCCATTCCGGGAGCCTG 1255
Db 1275 AACCCATTCCGGGAGCCTG 1293

RESULT 4

US-09-191-136-28
Sequence 28, Application US/09191136B
Patent No. 6214581
GENERAL INFORMATION:
APPLICANT: Abbott Laboratories
APPLICANT: Lynch, Kevin J.
APPLICANT: Burgard, Edward C.
APPLICANT: Van Biesen, T.
TITLE OF INVENTION: Nucleic Acids Encoding A Functional
TITLE OF INVENTION: Human Purinoceptor P2X3 and P2X6 And Methods Of Production
FILE REFERENCE: 6293-US-P1
CURRENT APPLICATION NUMBER: US/09/191,136B
CURRENT FILING DATE: 1998-11-13
EARLIER APPLICATION NUMBER: US 09/008,526
EARLIER FILING DATE: 1998-01-16
EARLIER APPLICATION NUMBER: US 09/008,185
EARLIER FILING DATE: 1998-01-16
EARLIER APPLICATION NUMBER: US 60/071,298
EARLIER FILING DATE: 1998-01-16
EARLIER APPLICATION NUMBER: US 60/071,669
EARLIER FILING DATE: 1998-01-16
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 28
LENGTH: 396
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Sequencing Primer
US-09-191-136-28

Query Match 14.6%; Score 394.4; DB 3; Length 396;

Best Local Similarity 99.7%; Pred. No. 2e-91;
Matches 395; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 886 AATCCGCTTGCATCTGTGTCACCGGGACGAGGAGGAGTGGGCTCATCCCGACGCG 945
Db 1 AATCCGCTTGCATCTGTGTCACCGGGACGAGGAGGAGTGGGCTCATCCCGACGCG 60
Qy 946 CGTCACACTGGGACCGGGGACGTTGGTGGCGTGTACCTTTTCTGTGACCTGCT 1005
Db 61 CGTCACACTGGGACCGGGGACGTTGGTGGCGTGTACCTTTTCTGTGACCTGCT 120
Qy 1006 ACTGCTGTATGTGATAGAGAACCCATTTCTATCTGAGAGCAAAAGTATGAGAGCCAA 1065
Db 121 ACTGCTGTATGTGATAGAGAACCCATTTCTATCTGAGAGCAAAAGTATGAGAGCCAA 180
Qy 1066 GGCCCCGAAAGCAACCGGCAACTCTGTGTGAGGAGTGGCCCTTGCAATCCCAACCGG 1125
Db 181 GGCCCCGAAAGCAACCGGCAACTCTGTGTGAGGAGTGGCCCTTGCAATCCCAACCGG 240
Qy 1126 ACTGGCCGAGTGGCTGACGAGACTCAGCACTGACCCACGCGCACTGCTGGAG 1185
Db 241 ACTGGCCGAGTGGCTGACGAGAGTCTCAGCACTGACCCACGCGCACTGCTGGAG 300
Qy 1186 TCAGACACAGACCAAGATGGCCCTGTCCAAAGTTCTGACACCCACTTGGCAACCATTC 1245

Db 301 TCAGACACAGACCAAGATGGCCCTGTCCAAAGTTCTGACACCCACTTGGCAACCATTC 360
Qy 1246 CCGGAGCCCTGTAGCCCTTCCCTGCTGTTGAGAGTT 1281
Db 361 CCGGAGCCCTGTAGCCCTTCCCTGCTGTTGAGAGTT 396

RESULT 5

US-09-949-016-367
Sequence 367, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 367
LENGTH: 1978
TYPE: DNA
ORGANISM: Human
US-09-949-016-367

Query Match 9.0%; Score 243.6; DB 4; Length 1978;

Best Local Similarity 58.3%; Pred. No. 2.8e-52;
Matches 501; Conservative 0; Mismatches 329; Indels 30; Gaps 3;

Qy 98 TGGGCTCTCCTCGCCCAAAAAGGCTACAGAGCGGACCTGGAAACCCGATTTTCATC 157
Db 175 TGGGCTCTCCTCGATATAAGAGGTTACCAAGACGTTCGACACTCCCTGCAAGTCTCTC 234
Qy 158 ATCAACCAACTCAAGAGGGGTTTCCGTACTCAGATCAAGAGCTTGGAAACCGGCTGGG 217
Db 235 ATCAACCAAGTCAAGAGGCGTGGCTTCACCAACACTCCGATCTTGGGCAAGGATCTGG 294
Qy 218 GATGTCGCGGACCTGTGAGGACCACTCAGGAGAGAGTGTCTTGTGGACCAAC 277
Db 295 GATGTCGCGGACCTGTGAGGACCACTCAGGAGAGAGTGTCTTGTGGACCAAC 354
Qy 278 TTCCCTGTGAGCGCAAGCCCAAGTTCAAGGCAAGATCCCAAGACCCGCTCCGACTG 337
Db 355 CTGATGTGACCCCAACCAAGCGGCGAGAACGTCTGTGCTGAGATGAGCAATTCGTAT 414
Qy 338 GCTAACTGCTGGGTGACAGAGACTGCCCCGAAGGAGAGGACACACAGCCAGGT 397
Db 415 GCGCGCTGTCCAAAGACAGCACTGCAACGCTGGGGAAGCGGTTACACCTGGAAACGGA 474
Qy 398 GTAAAAACAGGCGCAGTGTGTGTG--TTCAATGGGACCAAGGACCTGTGAGATCTGG 454
Db 475 GTGAAACCGGCGGCTGCTTCCGAGAGAGGAACTTGGCTCAGGGGACCTGTGAGATCTTT 534
Qy 455 AGTTGTGCCCAAGTGAAGTGGCGTTGTGCTCCCTGAGGCGCTGCTGAGCCGAGCCAG 514
Db 535 GCGTGTGCGCGTTGAGAGCAAGCTCCAGCGGAGAGCAATTCCTGAAAGAGGCGCA 594
Qy 515 AACTTCACACTGTTCATCAAAAACAGAGTACCTTCAGCAAGTTCACTTCTTAAGTTC 574
Db 595 GACTTCACCATTTTCAATAAAGACCAATCCGTTTCCCAAAATCAACTTCTC/AAAAAC 654
Qy 575 AATGCTTGAAGACCTGGGACCCCACTATTTTAAGCACTGCGGATGAACACCAATTC 634
Db 655 AATGATGAGAGTCAAGGACAGATCTTCTGAAATATCATGCACTTGGCCCCAAG--- 711

QY 635 AGCCCTACTGTCCTCCGTTCTCCGATTGGGACCTCGTGCCAAAGCTGAGGACCTTC 694
Db 712 AACCACTACTCCCTCCATCTTCCTCCGACTGCTCCATCGTCCCTGGGCGGAGCGACTTC 771
QY 695 GAGGACCTGGGCTGCTGGGAGGCTCTGTAGGACATCAAGTTCTGAGATTGGACCTG 754
Db 772 CAGATATAGCCCTCCGAGGAGGCTGTATAGAAATTAATTAATGAGAACTGTGATCTT 831
QY 755 GACACCGGGACTGTGGCTGTGGCTCTCACTCACTCTCCAGCTGACAGAGAAAG- 809
Db 832 GATTAAGCTGCTGCTGAGTGCACCTCTCACTATCTTTTAACTGAGCAATTAATTT 891
QY 810 -----GTTCACTTCAGACAGCCACTCACTGTGTGGACACCG 850
Db 892 TCAAAGTCTGTCTCTCCGCTGACAACTTCAGATTGCGCATATTAACGAGACGACCC 951
QY 851 GGTTGGAGGCGCCGACCTGCTCAAGCTATAGGAATCCGCTTCGACATCTCTGACCC 910
Db 952 GGGGTGAGTTCCGACCTGATGAAAGCTTACGGGATCGCTTTGAGTGTGTGAAC 1011
QY 911 GGGCAGCGAGGAGATTGCG 930
Db 1012 GGCAAGGTGCTTCTCTG 1031

RESULT 6

US-09-016-434-831

; Sequence 831, Application US/09016434

; Patent No. 6500938

; GENERAL INFORMATION:

; APPLICANT: Janice Au-Young

; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING

; TITLE OF INVENTION: PATHWAY GENE EXPRESSION

; NUMBER OF SEQUENCES: 1490

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

; STREET: 3174 PORTER DRIVE

; CITY: PALO ALTO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/016,434

; FILING DATE: HEREWITH

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Zeller, Karen J.

; REGISTRATION NUMBER: 37,071

; TELEPHONE: (650) 855-0555

; TELEFAX: (650) 845-4166

; INFORMATION FOR SEQ ID NO: 831:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1750 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: SCORNOT01

; CLONE: 555697

; US-09-016-434-831

Query Match 8.9%; Score 239.2; DB 4; Length 1750;
Best Local Similarity 56.3%; Pred. No. 3.6e-51;
Matches 529; Conservative 0; Mismatches 378; Indels 33; Gaps 3;
QY 152 TCCATCATACCAAACTCAAAAGGGTTTCCTGCTCATCATGATCAAGAGCTTGAACCGG 211
Db 214 TCCGTTACGACCAAGGTCAAGGGCGTGTGTGACCAACTTCTTAAACCTTGGATTCCGG 273
QY 212 CTGTGGGATGAGCGGCACTTGTGAAGCACTGAGGAGAGAACTGTTCTTTGTTG 271
Db 274 ATCTGGATGTGGCGGATTAATGATATCAAGCTGAGAGAAATCTCTTGTGTATG 333
QY 272 ACCAATCTCTTGTGAGCCAGCCAAAGTTGAGGCGATGATCCCAAGACACCCCTCCGTC 331
Db 334 ACCAAGGTATCTTCACTCATGAACTCAACAGAGGCGTGTGCGCGAGATTCC--CGAT 390
QY 332 CCACTGGCTAATCTGTGGGTGACAGAGACTCCCGCAAGGGGAGGACACACAGC 391
Db 391 GCGACCACTGTGTGTAATGATGACGAGCTGTACTCCGCGCTGTGCGGACCCACAGC 450
QY 392 CAGGTGTAATAAAAGGCGCATGTGTGTGTTCAATGAGGCCACAGACCTGTGATC 451
Db 451 AACGAGTCTCAACAGGCAAGGTGCTGATCTTCAACGGGTCTCAAGACGTGTAGGTG 510
QY 452 TGGAGTTGTGCCAGTGTGAGAGTGC---GTTGTGCTCTGAGGCGCTGCGCCAG 508
Db 511 GCGGCTGTGTGCGCGGTGAGAGATGACACACAGCTGCAACCTGTTTAAAGCT 570
QY 509 GCCCAAGCTTCACTGTTTATCAAAAAGACAGTCACTTCAGCAAGTTCACTTCT 568
Db 571 GCAGAAAATCTTACTCTTTTGTGTTAAGAACACATCTGTATCCCAATTTAATTGACG 630
QY 569 AAGTCCAAATGCTTGGAGACCTGGAGACCCCACTATTTAAGACATGCGCTGATGAACA 628
Db 631 AAGAGAAATATCTTCCCAATCACTCACTCACTCACTCACTCACTCACTCACTCACT 690
QY 629 CAATTCAGCCCTACTGTCCGTTGTCGATTTGGGAGGACTGTCGCAAGCTGAGG 688
Db 691 AAAAAGATCCCTTCTGCGCATATTCCTGCTTGGCAAAATATGAGAAAGCAGAC 750
QY 689 ACCTTGAGGACCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 748
Db 751 AGTTCCAGGACATGCGCTGAGAGGAGCATATGAGTCACTGAGTCACTGAGACTGC 810
QY 749 GACCTGACACCGGAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 806
Db 811 AACCTGACAGAGCGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 870
QY 807 -----AGAGCTACAACTTCAGAGCAGCCACTCACTGTGG 841
Db 871 CGGAGCTTACAGCAACGATATCTCTGCTTCAAAATTTGAGGTTTGGCAAGTACTACAGA 930
QY 842 GAGCAACCGGATGTGAGGCGGACCTGCTCAAGCTATAGAAATCGCTTGCATC 901
Db 931 GACTGCTGAGCAAGCAGAGCGCAGCTCATAGAGCTATAGCAATCGCTTGCATC 990
QY 902 CTGTGACCGGAGGAGGAACTTGGGCTATCCCAAGCGGCTGACACTGGGAC 961
Db 991 ATTGTGTTGGAGGAGGAAATTTGACATATCCCATATGATGACATCGGCTCT 1050
QY 962 GGGGCACTTGGCTGGCGGTGTCACCTTTTCTGTGACCTGTACTGCTGTATGTGAT 1021
Db 1051 GCGCTGCACTGCTAGGAGGAGGAGCGAGCTGTGTGACATCATATGCTTCTACTGATG 1110
QY 1022 AGAGAAAGCCATTCTTACTGAGAGACAAAGTATGAGAGG 1061
Db 1111 MAGAAAAGACTTACTATCGGAGAGAAATATTAATATG 1150

RESULT 7

US-08-742-621-2

; Sequence 2, Application US/08742621

; Patent No. 5856129

```

GENERAL INFORMATION:
APPLICANT: HILLMAN, JENNIFER L.
APPLICANT: COLEMAN, ROGER
TITLE OF INVENTION: NOVEL HUMAN PURINOCEPTOR
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESS: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: US
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/742,621
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0147 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1762 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
LIBRARY:
IMMEDIATE SOURCE:
CLONE: CONSENSUS
US-08-742-621-2

Query Match      8.9%; Score 239.2; DB 2; Length 1762;
Best Local Similarity 56.3%; Pred. No. 3.6e-51;
Matches 529; Conservative 0; Mismatches 378; Indels 33; Gaps 3;

QY 152 TCCATCATCAACCAACTCAAGGCGTTTCCCTCAGCTCAAGTCAAGAGCTTGGAAACCGG 211
DB 214 TCCGTTACGACCAAGGTCAAGGCGTGGCTGTGACCAACCTTCTAAACTTGGATTCCGG 273
QY 212 CTGTGGGATGTGGCCGACTTCTGTGAAGCACTCAGGAGAGAAAGTGTCTTCTTGTG 271
DB 274 ATCTGGAGTGTGGCGGATTATGTGATACCAAGTCAAGAGAAATCCCTCTTCCGATG 333
QY 272 ACCAACTCTCTGTGACGCCAGCCAAAGTTCAAGGAGATGCCCAGAGACCCGTCGTC 331
DB 334 ACCAAGTATCTCTACCATGAACACAGACAGAGGCGCTGCGCCGAGATTCC---CAGAT 390
QY 332 CCACTGGCTAACTGCTGGGTCGACGAGACTGCCCCGGAAGGGAGAGGAGGACACACAGC 391
DB 391 GCGACCACTGTGTGAATCAATGCAATGCCAGCTGTAATGCGGCTCTCCGCGACCCACAGC 450
QY 392 CAGGTGTAAAAACAGGCAAGTGTGTGTTCAATGGGACCCACAGAGACTGTGAGATC 451
DB 451 AACGAGTCTCAACAGGCAAGTGTGTTCAACGGGCTCTCAAGAGCTGTGAGTG 510
QY 452 TGGAGTGTGCCCACTGAGAGAGTGC---GTTGTCCCTCGAGGCGCCCTGCTGCCAG 508
DB 511 GCGGCTGTGCGCGGTGAGAGATGACACACAGTGCACCAACTGCTTTTAAAGCT 570
QY 509 GCCCAAGACTTCACTAGTTCATCAAAACACAGTCAACCTTACGAAAGTTCAACTTCTCT 568
DB 571 GCAAGAACTTCACTTTTGGTTAAGAACACATCTGGTATCCCAATTTAATTTCAAG 630

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QY 569 AAGTCCATGCTTGGAGACTGGAGACCCCACTATTTTAACTGCTTATTAATCA 638
DB 631 AAGAGAAATATCTTCCCAACTCAACACTACTTACCTCAACGTGATGATTATGATCT 690
QY 629 CAATTACGCCCTACTGTCTCCGTGTTCCGATTGGGAGACTGTGCGCAAGCTGAGCG 688
DB 691 AAAACAGATCCCTTGTGCCCCATATTTCCCTTTGGCAAAATGTGAGAACGACAGATAC 750
QY 689 ACCTTCAGAGACTGCGCTTGGGTGGCTGTAGCATCAGATTTCAGTGGATTGT 748
DB 751 AGTTTCAGAGACTGCGCTTGGGTGGCTGTAGCATCAGATTTCAGTGGATTGT 810
QY 749 GACCTTGACACCGGAGACTGTGCTGCTGCTCACTACTCTTCCAGCTGAGAGA--- 806
DB 811 AACCTGACAGAGCGCGCTCCCTGCTGCTGCGAGTACTCTTCCGCGCGCTTCAATACA 870
QY 807 -----AGAGCTTCAACTTGAAGACGCCACTCACTGTTGG 841
DB 871 CGGAGCTTGAGACACACATATCTCTGCTGCTCAATTTGAGGTTTCCCAAGTACTATAGA 930
QY 842 GAGCAACCGGCTGTGAGGCGCGCAACCTGCTAAGCTATAGAAATCCGCTTCAATATC 901
DB 931 GACCTGCTGGCAAGAGAGCGACGCTCATTAAGGCTTATGATGCTTCCGCTTCAATATC 940
QY 902 CTGCTCACCGGAGAGCAAGGAATTCGGGCTCATCCCAAGCTTCACTGAGTGC 911
DB 991 ATTGTCTTGGAGAGGAGGAAATTTGATCATATCCCATATGATCAATATTCGCTCT 1050
QY 962 GGGGAGCTTGGCTGGGCTGTGCTACCTTTTCTGTGAGCTGCTACTGTGATATGAT 1021
DB 1051 GGCCTGGCACTCTAGGCAATGGCAGACCGTGTGTGATCATATGATGCTTACTATGCAATG 1110
QY 1022 AGGAAGCCCATTTCTACTGAGAGCAAAATGATGAGAG 1061
DB 1111 AAGAAAAGCTACTATGTGGAGAGAAATTAATATAG 1150

RESULT 8
US-09-191-608-21
Sequence 21, Application US/09191608
Patent No. 6242216
GENERAL INFORMATION:
APPLICANT: Lynch, Kevin J.
APPLICANT: Burgard, Edward C.
APPLICANT: Metzger, Randy E.
APPLICANT: Niforatos, Wende
APPLICANT: Touma, Edward B.
TITLE OF INVENTION: Nucleic Acids Encoding a Functional
TITLE OF INVENTION: Human Purinoceptor P2X2 and P2X4 And Methods of Production
FILE REFERENCE: 6394.US.P1
CURRENT APPLICATION NUMBER: US/09/191,608
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSeq For Windows Version 3.0
SEQ ID NO 21
LENGTH: 1206
TYPE: DNA
ORGANISM: Homo sapiens
US-09-191-608-21

Query Match      8.8%; Score 237.6; DB 3; Length 1206;
Best Local Similarity 56.2%; Pred. No. 7.7e-51;
Matches 528; Conservative 0; Mismatches 379; Indels 33; Gaps 3;

QY 152 TCCATCATCAACCAACTCAAGGCGTTTCCCTCAGCTCAAGTCAAGAGCTTGGAAATCCG 211
DB 207 TCCGTTACGACCAAGGTCAAGGCGTGGCTGTGACCAACCTTCTAAACTTGGATTCCGG 266
QY 212 CTGTGGGATGTGGCGGACTTGTGTAAGCACTCAAGGAGAGAGCTGTCTTCTTGGTG 271

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Db      267 ATCTGGAGTGTGGCGGATTAATGATACAGCTCAGAGGAAAACTCCCTTCCTGTCATG 326
Qy      272 ACCAATCTCTGTGAGCCAGCCCAAGTTGAGGGCAGATGCCAGACACCCCTCCGTC 331
Db      327 ACCAATCTCTGTGAGCCAGCCCAAGTTGAGGGCAGATGCCAGACACCCCTCCGTC 383
Qy      332 CCACTGGCTAACTGCTGGGTGACGAGAACTGCCCCAGAGGGAGGAGGACACACAGC 391
Db      384 GCGACCACTGTGTATAATCAGATGCCAGCTGTACTGCGGCTCTGCCGACCCACACG 443
Qy      392 CAGGTGTAAAAACAGGCGCAGTGTGTGTGTTCAATGAGAACCAAGACCTGTGATC 451
Db      444 AACGAGTCTCAACAGGCGAGTGGTGTGCTTTCAACGGGTCCGTCAGACCTGTGAGTG 503
Qy      452 TGGAGTGTGGCCGAGGAGAGTGGC---CTTGTGCTCTGAGAGCCCTGCTGCCAG 508
Db      504 GCGGCTGTGGCCGAGGAGATGACACACGTCGCAACCTGCTTTTAAAGGCT 563
Qy      509 GCCAGAACTTCACTACGTTCATCAAAAAACAGTCACTTCAGCAAGTTCACTTCT 568
Db      564 GCGAATACTTCACTCTTTTGTGTAAGACACATCTGTATCCCAATTTAATTTACG 623
Qy      569 AAGTCAATGCTTGAAGCTGGACCCCACTAATTTAAGACTGCGCTATGAACA 628
Db      624 AAGAGAAATCTCTCCCAACATGACCACTAATCTCAAGTGTGATTTATGATGCT 683
Qy      629 CAATTCAGCCCTTATCTGCTGCTTCCGATTTGGGACCTGCTGGCCAAAGCTGAGGG 688
Db      684 AAAACAGATCTCTCTCCCATATCTGCTTGGCAAAATGAGGAAACGACAGAC 743
Qy      689 ACCTTCAGGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 748
Db      744 GCTTTCAGAGACATGCGCTGAGAGGAGCATCATGGGATCTCAGGTCACTGGAGCTGC 803
Qy      749 GACCTGACACCGGGGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 806
Db      804 AACCTGACAGAGCGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 863
Qy      807 -----AGAGTCAAACTTCAGAGACGCACTGCTGCTGCTGCTGCTGCTGCTGCT 841
Db      864 CCGGACCTTGAGCAACGATCTCTGCTGCAAAATTCAGGTTTGGCAAGTACTACAGA 923
Qy      842 GAGCAACCGGCTGAGAGGCGCCGACCTGCTCAAGCTTATGGAATCCGCTTGACATC 901
Db      924 GACTGTGCTGACAGAGACGACCGCATCTATCAAGGCTTATGAGCATCTGCTTGACATC 983
Qy      902 CTCGTACCGGGGACGAGGAGGAGTTGCGGCTCATCTCCCAAGCGCTGACACTGGGACC 961
Db      984 ATTGTGTTGGAGGAGGAGAAATTGACATCATCTCCCATATGATCAATCGGCTCT 1043
Qy      962 GGGGACGCTGGCTGGGCGTGGTCACTTTTCTGTGACTGTACTGTGTATGTGAT 1021
Db      1044 GGCCTGCACTGTAGGCGATGCGACCTGTGTGTGATCATATGATCTCTACTGATG 1103
Qy      1022 AGAGAGCCCACTTCTACTGAGAGCAAAATGATGAGGAG 1061
Db      1104 AAGAAAGACTTACTATCGGAGAAAGAAATATAATATG 1143

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RESULT 9
US-09-949-016-3548
; Sequence 3548, Application US/09949016
; Patent No. 681239
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768

```

```

; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3548
; LENGTH: 1389
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3548

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Query Match      8.8%; Score 237.6; DB 4; Length 1389;
Best Local Similarity 56.2%; Pred. No. 8,3e-51;
Matches 528; Conservative 0; Mismatches 379; Indels 33; Gaps 3;

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Qy      152 TCCATCATCAACCAACTCAAAAGGGTTCCGTCACTCATGATCAAGGACTTTGAAACCG 211
Db      214 TCCGTTACGACCAAGGTCAAAGGCGTGGCTGTGACCAACTTCTAATACTTGATTCGG 273
Qy      212 CTGTGGGATGTGGCCGACTTGTGAAGCGCACTCAGGAGAGAACGTTCTTCTGTG 271
Db      274 ATCTGGATGTGGCGATTATGATATCAGCTCAGAGAGAAATCTCTTCTGTCATG 333
Qy      272 ACCAATCTCTGTGACGCGGACCCAGTTCAAGGCGATGCCAGACACCCGTCGTC 331
Db      334 ACCAAGTATCTCTCACTCACTGAACAGACAGAGGCTGTGCCCGAGATTC---CAGAT 390
Qy      332 CAATGCTTACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 391
Db      391 GCGACCACTGTGTAAATCAGATGCGAGCTTACTCCGCTCTGCTGCTGCTGCTGCTGCT 450
Qy      392 CAGGCTTAAACAGGCGGAGTGTGTGTGTTCAATGAGAACCAAGACCTGTGATC 451
Db      451 AAGGAGTCTCAACAGGCGAGTGTGCTTTCAACGGGTGTGTAAGACGTTGAGGTG 510
Qy      452 TGGAGTGTGGCCGAGGAGAGTGGC---GTTGTGCTCTGAGGCCCTGCTGGCCAG 508
Db      511 GCGGCTGTGTGCGCGGTGGAGATGACACACAGTGCACAACTGCTTTTAAAGGCT 570
Qy      509 GCCAGAACTTCACTGCTTCAATCAAAACAGTCACTTCAGCAAGTTCACTTCT 568
Db      571 GCAAAATCTTCACTCTTTTGTAAAGAACATCTGTATCCCAATTTAATTTAGC 630
Qy      569 AAGTCAATGCTTGAAGACTGGAGACCCACATTTTAAGCACTGCCCTATGAACA 628
Db      631 AAGAGAAATCTCTCCCAACATCACACATTAATCTCAAGTGTGATTTATGATCT 690
Qy      629 CAATTCAGCCCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 688
Db      691 AAAACAGATCTCTTCTGCGCATATTCCTGCTTGGCAAAATGATGAGAAACGACAGAC 750
Qy      689 ACCTTCAGGACCTGCGGCTGTGAGTGTGCTGTGAAGCATCAAGTTCACTGGATGT 748
Db      751 AGTTTCAGAGATGCGCTGAGAGGAGCATATGAGGATCCAGGTCACTGGAGCTGC 810
Qy      749 GACCTGACACCGGAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 806
Db      811 AACCTGACAGAGCGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 870
Qy      807 -----AGAGTCAAACTTCAGAGACGCACTGCTGCTGCTGCTGCTGCTGCTGCT 841
Db      871 CCGGACCTTGAGCAACGATATCTCCGCTGACAAATTTCAAGTTTGGCAAGTACTACAGA 930
Qy      842 GAGCAACCGGCTGTGAGGCGCCGACCTGCTCAAGCTTATGGAATCTGCTTGACATC 901
Db      931 GACTGTGCTGCAACGAGCGACGACCTCATCAAGGCTTATGAGCATCTGCTTGACATC 990
Qy      902 CTCGTACCGGGGACGAGGAGGAGTTGCGGCTCATCTCCCAAGCGGCTGACACTGGGACC 961
Db      991 ATTGTGTTGGAGGAGGAGAAATTGACATCATCTCCCATATGATCAATCTGCTCT 1050
Qy      962 GGGGACCTTGGCTGGCGTGTACCTTTTCTGTGACTGTACTGTGTATGTGAT 1021

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Db 1051 GGCCTGCACTGCTAGGACATGCGACCTGCTGTGATCATCATAGTCTCTACTGCATG 1110
Qy 1022 AGAAGAGCCATTCTTACTGAGAGCAAGATATGAGGAG 1061
Db 1111 AAGAAAGACTTACTTATCGGAGAGAAATATTAATATG 1150

RESULT 10
US-09-949-016-4136
Sequence 4136, Application US/09949016
Patent No. 5812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 4136
LENGTH: 2597
TYPE: DNA
ORGANISM: Human
US-09-949-016-4136

Query Match 8.7%; Score 233.4; DB 4; Length 2597;
Best Local Similarity 56.7%; Pred. No. 1.4e-49;

Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;

Qy 164 AAATCTAAAGGGGTTTCCTGCTACTCAGATCAAGAGAGTTGAAACCGGCTGTGGATGTG 223
Db 376 AAATCTAAAGGGGTTTCCTGCTACTCAGATCAAGAGAGTTGAAACCGGCTGTGGATGTG 425
Qy 224 GCGGACTTGTGAGCCACTCAGGAGAGAGACGTGTTCTTTGGAGCACTTCTT 283
Db 436 GGTGACTAGCTCTCCAGCCAGGGGAGCAACTCTCTTGTGTCATGACCAATTTTCATC 495
Qy 284 GTGAGCCCAAGCCCAAGTTTCAGGCGAGTCCAGAGAGACCGTCCGCTGCTGCTAAC 343
Db 496 GTGAGCCCAAGAGACTCAAGGCTACTGCGCAGAGACCC-----AGAAGGGCGATA 549
Qy 344 TGCTGCTCAGAGAGCTGCCCCGAAGGAGAGAGGACACACAGCCAGGTTAA 403
Db 550 TGCAGAGAGAGAGAGTGTGCTGTACCCCTGGGAGGACCAAGAGAGGCCCAAGGCTATCCGC 609
Qy 404 ACAGGCGAGTGTGTGCTCAATGGGACCCACAGAGCCGTGAGATCTGAGATTGTGTC 463
Db 610 ACAGGCGAGTGTGTGCTCAATGGGACCCACAGAGCCGTGAGATCTGAGATTGTGTC 669
Qy 464 CCAAGTGAAGAGTGGCTGTGCTGCTGAGAGC---CCCTGCTGGCCCAAGCCAGAACTTC 520
Db 670 CCGGTGAGAGTGAATGACGACATCCCGCGCTGCTGCTTTCGAGAGGCGGAGAACTTC 729
Qy 521 ACACTGTTCATCAAAAACAGATCCTTCAAGAGTTCACTTCTTAAGTCAATGCC 580
Db 730 ACTCTTTTCAAAAGACATCAGCTTTCACAGCTTCAAGGTCAACAGGCCCAACCTG 789
Qy 581 TTGGAGACCTGGGACCCCACTATTTTAAAGCATCGCCGCTATGACACCAATTCAGCCCC 640
Db 790 GTGGAGAGGTGATGTGCCCCACATGAAACCTGCTCTTTTCAAGAACCTTCAGCCCC 849
Qy 641 TACTGTCCCGTGTTCGATTTGGGACCTGTGGCCAAAGCTGAGGAGCTTCAGAGAC 700
Db 850 CTGTGCGCAATCTTTCAGCTTTGGCTAGCTGTGTCAGAGTCAAGGCCAGAACTTCAGACC 909
Qy 701 CTGGCGTTGCTGGGTGCTCTGTAGGCAACAGATTCACTGGGATTGTGACTGGACACC 760

Db 910 CTGGCTGAAGAGGTGAGAGTGTGTCATCAACATCGACTGCTACTGTGACCTGGACCTTGG 969
Qy 761 GGGAGACTGTGGCTGTGCTGCGCTTCACTACTCTTCCAGAGTCAAGAGAGAA-----809
Db 970 CAGGTAGGCGACTGCAAGCCCATCTATGAGTTCATGAGGCTGTACCAAGAAATATCTC 1029
Qy 810 -----GCTAACACTTCAGACAGCCACTCACTGAGTGGAGCAACCGGCTGTGAGCC 862
Db 1030 TCCCGAGGCTTCACTTCAAGTTTGGCCAGGCACTTTGTGAGAAC---GGAGCAACATTC 1086
Qy 863 CGCACCTTCTCAAGCTCTATGGAATCCGCTTGCATCTCTGTCACCGGCAAGCAAGG 922
Db 1087 CGCACCTTCTCAAGGTTTGGGATTCGCTTGCATCTCTGTCAGCGCAAGCGCGG 1146
Qy 923 AAGTTGGGCTCATCCCAAGCGCCGTCACATGGGACCGGGGCAAGCTTGGCTGGGCGTG 982
Db 1147 AAGTTGACATCATCCCTCAATATGACCAACATGGCTCTGGAATTTGCAATCTTTGGAGTG 1206
Qy 983 GTCACTTTTCTGTGACCTGTACTGTGTATGTGATGAAACCCATTTCTACTTG 1042
Db 1207 GCCAGATTCTGTGACCTGTGCTGCTGCTTCAATCTGCTTCAAGAGCACTTATTAAG 1266
Qy 1043 AGACAAAGTATGAGAGGCCCAAGGCC 1069
Db 1267 CAGAAAGATTCAAAATATCCTGAGGAC 1293

RESULT 11
US-08-750-134A-10

Sequence 10, Application US/08750134A
Patent No. 5985603

GENERAL INFORMATION:
APPLICANT: VALERA, SOLEDAD

APPLICANT: BUELL, GARY
TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)

NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESSES:

ADDRESSEE: NIXON & VANDERHAYE P. C.
STREET: 1100 NORTH GLEBE ROAD

CITY: ARLINGTON
STATE: VIRGINIA

COUNTRY: U.S.A.
ZIP: 22201-4714

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/750,134A

FILING DATE: 22-JAN-1997
CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:
NAME: CRAWFORD, ARTHUR C.

REGISTRATION NUMBER: 25,327
REFERENCE/DOCKET NUMBER: 1430-116

TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4006

TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:
LENGTH: 2643 base pairs

TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: CDNA

US-08-750-134A-10

Query Match 8.7%; Score 233.4; DB 2; Length 2643;
Best Local Similarity 56.7%; Pred. No. 1.4e-49;

Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;


```

QY 164 AAATCAAGGGGTTTCCTGCTACATCAGATCAGAGGCTTGGAAACCGGCTGTGGATGTG 223
D 375 AAATCAAGGGGCTCGGTGACAGCTCCCTGGCCCTCGGCCCCCAAGTGTGGGATGTG 434
QY 224 GCGGACTTCTGGAAGCCACTCAGGAGAGAGAGCTGTTCTTCTTGGTGAACCACTTCTT 283
D 435 GCTGACTACGTCCTTCCAGGCCAGAGGGGACAACTCCCTGTCGTCATGACCAATTCATC 494
QY 284 GTGACCGCAGCCCAAGTTCAAGGGGAGATGCCAGAGACCCGTCCTCCCTCGGCTAAC 343
D 495 GTGACCCCGAAGCAGACTCAAGGCTACTGCGCAGAGCACTC-----AGAGGGGGCATA 548
QY 344 TGTGGTTCGACGAGACTGCCCCGAAGGGGAGGAGGACACACAGCAGCTGTAAAA 403
D 549 TGCAGGAAGAAGATGGCTGTACCCCTGGGAAGGCCAAGAGGAGCCCAAGGATCCGC 608
QY 404 ACAGGCCAGTGTGTGTGTTTCAATGGAACCCACAGACCTGTGAGATCTGGAGTTGTGC 463
D 609 ACCGGCAAGTGTGTGGCTTCAACGACACTGTGAAGAGCTGTGAGATCTTGGCTGGTGC 668
QY 464 CCAGTGAGAGTGGCGTTGTCCTCGAGGC---CCCTGCTGGCCCAAGCCCAACTTC 520
D 669 CCGTGAAGGTGATGACGACATCCGCGCCCTGCTCCCTTCGAGAGGCCGAAACTTC 728
QY 521 ACACTGTTCAACAAAAACAGTCACTCAGCAAGTTCAACTTCTTAAGTCCATGCC 580
D 729 ACTCTTTCAACAAAGAACAGATCAGCTTCCAGCTTCAAGTCAACAGCGCAACTGC 788
QY 581 TTGGAGACTGGGACCCCACTTATTTAAGCACTGCGGCTATGAACCAATTCAGCCCC 640
D 789 GTGAGAGAGGTGAATGCTGCCCAATGAAAGACTGCTCTTTCACAAAGACCTGCACCCC 848
QY 641 TACTGTCCCGTTCCCGCATTTGGGAGCTGTGGCCAAAGGTGAGAGGACCTTGAAGAC 700
D 849 CTGTGCCAGTCTCCAGCTTGTGCTGAGTGTGAAGAGTCAAGGCAAAATTGAGACC 908
QY 701 CTGGCGTGTGGGTGCTGTGAGGATCAGAGTTCAGTGGGATTTGACCTGGAACCC 760
D 909 CTGGCTGAGAAAGGTGAGTGTGTGGCATACCATCGACTGTGACTGTGACTGTG 968
QY 761 GGGGACTGTGGCTGTGGCTCACTACTCTTCCAGCTGACAGAAAG-----809
D 969 CAGTACGGGACTGCAAGCCCATCTATGAGTTCCATGGGCTGTGAGAAAGAAATCTC 1028
QY 810 -----GTTACCACTCAGAGACGCACTCAGTGTGGAGGACACCGGCTGTGAGGCC 862
D 1029 TCCCAAGGCTTCAACTTCAGGTTTGGCAGGACCTTGTGAGAAC---GGGACCAACTAC 1085
QY 863 CGGACCTGCTCAAGCTCTATGAAATCCGCTTGCACATCTCTGACCGGGCAGGAGGG 922
D 1086 GTCACCTCTTCAAGGCTGTGTGGGATTCGCTTTCACATCTCTGTGAGAGCGCAAGCGGG 1145
QY 923 AAGTTGGGCTCATCCCAAGCGCGGTCAACTGGGCAACGGGAGAGCTTGGCTGGGCTG 982
D 1146 AAGTTGACATCATCCCTACAAATGACCAACCATCGGCTGTGAATTTGGATCTTTGGGGTG 1205
QY 983 GTGACCTTTTCTGTGACTGTCTACTGTGTATGTGATAGAGAGCCCATTTTACTCG 1042
D 1206 GCGACAGTTCCTGTGTGACTGTCTCTCTTCAACATCTGTGCTTGAAGGCACTTACAG 1265
QY 1043 AGGACAAGTATGAGAGGCAAGGCC 1069
D 1266 CAGAGAAAGTTCAAAATACGCTGAGGAC 1292

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RESULT 12
US-09-363-745-10
; Sequence 10, Application US/09363745
; Patent No. 6194162
; GENERAL INFORMATION:
; APPLICANT: VALERA, SOLEDAD
; APPLICANT: BUELL, GARY
; TITLE OF INVENTION: P2X RECEPTORS (PURINOCEPTOR FAMILY)

```

```

; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHAYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/363,745
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/750,134
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: CRAWFORD, ARTHUR C.
; REGISTRATION NUMBER: 25,327
; REFERENCE//DOCKET NUMBER: 1430-116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4006
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2643 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-09-363-745-10
;
; Query March 8.7%; Score 233.4; DB 3; Length 2643;
; Best Local Similarity 56.7%; Pred. No. 14e-49;
; Matches 526; Conservative 0; Mismatches 371; Indels 30; Gaps 4;

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QY 164 AAATCAAGGGGTTTCCTGCTACATCAGATCAGAGGCTTGGAAACCGGCTGTGGATGTG 223
D 375 AAATCAAGGGGCTCGGTGACAGCTCCCTGGCCCTCGGCCCCCAAGTGTGGGATGTG 434
QY 224 GCGGACTTCTGGAAGCCACTCAGGAGAGAGAGCTGTTCTTCTTGGTGAACCACTTCTT 283
D 435 GCTGACTACGTCCTTCCAGGCCAGAGGGGACAACTCCCTGTCGTCATGACCAATTCATC 494
QY 284 GTGACCGCAGCCCAAGTTCAAGGGGAGATGCCAGAGACCCGTCCTCCCTCGGCTAAC 343
D 495 GTGACCCCGAAGCAGACTCAAGGCTACTGTGCGCAGAGCACTC-----AGAGGGGGCATA 548
QY 344 TGTGGTTCGACGAGACTGCCCCGAAGGGGAGGAGGACACACAGCAGCTGTAAAA 403
D 549 TGCAGGAAGAAGAGTGTGCTTATGACCTTGGGAAGGCCAAGAGGAGCCCAAGGATCCGC 608
QY 404 ACAGGCCAGTGTGTGTGTTTCAATGGAACCCACAGACCTGTGAGATCTGGAGTTGTGC 463
D 609 ACCGGCAAGTGTGTGGCTTCAACGACACTGTGAAGAGCTGTGAGATCTTGGCTGGTGC 668
QY 464 CCAGTGAGAGTGGCGTTGTCCTCGAGGC---CCCTGCTGGCCCAAGCCCAACTTC 520
D 669 CCGTGAAGGTGATGACGACATCCGCGCCCTGCTCCCTTCGAGAGGCCGAAACTTC 728
QY 521 ACACTGTTCAACAAAAACAGTCACTCAGCAAGTTCAACTTCTTAAGTCCATGCC 580
D 729 ACTCTTTCAACAAAGAACAGATCAGCTTCCAGCTTCAAGTCAACAGCGCAACTGC 788
QY 581 TTGGAGACTGGGACCCCACTTATTTAAGCACTGCGGCTATGAACCAATTCAGCCCC 640
D 789 GTGAGAGAGGTGAATGCTGCCCAATGAAAGACTGCTCTTTCACAAAGACCTGCACCCC 848
QY 641 TACTGTCCCGTTCCCGCATTTGGGAGCTGTGGCCAAAGCTGAGAGGACCTTGAAGAC 700

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Db	849	CTGTGCCAGTCTTCCAGCTTGGTACTGTCGCAAGATGAGCCGAACTTCAGCAC	908
Qy	701	CTGGCGTTGTGGGTGCTCTGTAGGCATCAGATTCACTGGGATTGTGACTTGACACC	760
Db	909	CTGGCTAGAAAGGTGGAGTGGTTGGATCATCATTGACTGGCATCTGTGACTGGA	968
Qy	761	GGGGACTCTGGTCTGCTGCTCACTACTCTCCCTCCAGCTGCAAGAGAAC	809
Db	969	CAGGTACGGCATGTGCAACCCATTATGATGATTCATGGGCTGTGTGAAAGAAAATCTC	1028
Qy	810	-----GCTACACCTTCAGGACAGCCATCTAGTGGGGAGCAACGGGGTGTGAAGCC	862
Db	1029	TCCCCAGGCTTCAACTTCAGGTTTGGCCAGGACTTTGTGGAAAC--GGGACCACTAC	1085
Qy	863	CGCACCTGCTCAAGCTCTATGAAATCCGCTTGCATCCTCGTACACCGGCGAGGACAGG	922
Db	1086	CGTACCTCTTCAAAGGTGTTGGGATTTGCTTTTATCTCTGTGTGACGGGCAAGCCGGG	1145
Qy	923	AAGTTTCGGGCTCATCCCCACGGCCGCTACACTGTGGGCAACGGGGCAGCTTGGCTGGCGGTG	982
Db	1146	AAGTTTACATCATCTCCCTACAAATGACCAACATCGGCTGTGGAATTTGGATCTTTGGGGTG	1205
Qy	983	GTCACCTTTTCTGTGACCTGCTACTGCTGTATGTGATAGAGAACCCATTCTACTGG	1042
Db	1206	GCCACAGTCTCTGTGACCTGCTGCTGCTTCACATCCGCTTAAGAGGCACTACTACAAAG	1265
Qy	1043	AGGACAAAGTATGAGGAGGCCAAGGCC	1069
Db	1266	CAGAAAGATTCAATACGCTGAGAGAC	1292

RESULT 13
 US-09-023-655-897
 : Sequence 897, Application US/09023655
 : Patent No. 6607879
 : GENERAL INFORMATION:
 : APPLICANT: Cocks, Benjamin G.
 : APPLICANT: Susan G. Stuart
 : APPLICANT: Jeffrey J. Sellhame
 : TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
 : TITLE OF INVENTION: EXPRESSION
 : NUMBER OF SEQUENCES: 1508
 : CORRESPONDENCE ADDRESSES:
 : ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 : STREET: 3174 PORTER DRIVE
 : CITY: PALO ALTO
 : STATE: CALIFORNIA
 : COUNTRY: USA
 : ZIP: 94304
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/09/023,655
 : FILING DATE: HEREWITH
 : CLASSIFICATION:
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER:
 : FILING DATE:
 : CLASSIFICATION:
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Zilleg, Karen J.
 : REGISTRATION NUMBER: 37,071
 : REFERENCE/DOCKET NUMBER: PA-0001 US
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (650) 855-0555
 : TELEFAX: (650) 845-4166
 : INFORMATION FOR SEQ ID NO: 897:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 2643 base pairs

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; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g1166437
US-09-023-655-897

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Query Match	8.7%	Score	233.4	DB	4	Length	2643
Best Local Similarity	56.7%	Pred. No.	1.4e-49				
Matches	526	Conservative	0	Mismatches	371	Indels	30
						Gaps	4

QY	16	AAACTCAAAGGGGTTTCCGTCACATCAAGATCAAGAGTTTGAAACGGCGTGTGAGATGTG	223
Db	375	AAACTCAAAGGGCTTGCGCGGTGACCCACBCTCCCTGGCTCGAGCCCCCAAGCTCTGGAGATGTG	434
QY	224	GCCGACTTTCGTGAAGCCACCTCAGGAGAGAACGTGTCTTCTTGTGTGACCACTTCTCTT	284
Db	435	GCTGACTACACTTCTCCAGGCCAGGGGAGCAACTCTCTTGCTGATGACCAATTTTATG	494
QY	284	GTAGCGCCACCCCAAGTTCAAGGCAAGATGCCAGAGACACCGCTCCGCTCCATCTGCTTAC	344
Db	495	GTAGCCCCGGAAGCAGACTCAAGGCTACTGCGCAGAGACCC-----AGAAAGGTGGCAT	548
QY	344	TGCTGGGTTCACAGAGACTGCCCCCAAGGGGAGGAGGCACACAGGCCACGGTGTATMA	404
Db	549	TGCAAGGAAACATGTGGCTGTACCCCTGGGAGGCCAAGAGGAAGGCCAAGGCATCTCCG	604
QY	404	ACAGGCCAAGTGTGTGTGTTTCATATGGAGCCCAACAGACCTGTATAGATCTCAAGTTGTATG	464
Db	609	ACGGGCAAGTGTGTGGCTTTCAACGACACTGTGAAGACGTGTAGATCTTTGTGCTGGTATC	669
QY	464	CCAAGTGAAGATGGCGCTTGTGCCCTCGAGGC-----CCCTGCTGGCCCAAGGCCCAATCTTC	520
Db	669	CCGTTGAGGTGTGATGACGACATCCCGCGCCCTTGCCCTTCTCGAAGAGGCCGAATCTTC	728
QY	521	ACACTGTTATCAAAAACACAGTACCTTCAGCAAGTTCAACTTCTCTAATGCTCAATGCC	580
Db	729	ACTCTTTTCACTCAAGAACACATCAGCTTTTCCACGGCTTCAGAGGTCAACAGCCCACTTG	788
QY	581	TTGGAGACCTGGGGCCCCCACCTATTTTAAAGCACCTGGCCGATATGACACAAATTCAGCTTC	640
Db	789	GTGGAGGAGGTGAATGCTGCCCAATGMAAGACCTGGCTCTTTCAAGAAGCCCTTGACCTTC	844
QY	641	TACTGTCCTCGTGTCCGCATTTGGAAACCTCGTGGCCAAAGCTGGAGGGAATCTTCAATAC	704
Db	849	CTGAGCCCACTCTTCCAGCTTGGCTAGTGGTGCMAAGACAGGCCAGAACTTGTAGATCC	904
QY	701	CTGGCGTTCTGGGTGGCTCTTAGAGCATAGAGTTCACTGGGATTTCTGACTCGAGACCC	760
Db	909	CTGGCTGAGAAAGGTGAGTGTGTGGCATCCATGACATGACATGGACCTGTGACTCTGTGACTGG	964
QY	761	GGGGACTCTGGCTGCTGGCCTCACTACTCTTCCAGCTCAGGAGAGAA-----809	
Db	969	CAGCTAGGGAACGTGCAAGCCCATCTATGATTTCCATGGGGCTGTATCGAAGAGAAATCTTC	1028
QY	810	-----GCTAACAATTCAAGAACGCCACTCACTGTGGGAGCAACCGGCTGTGTAAAGCC	862
Db	1029	TCCCCAGGCTTCAACATTCAGAGTTTGGCAGGCACTTTGTGAGAAAC--GGAGCAATCTAC	1085
QY	863	CGACACCTGTCTAAGCTCTATGGAAATCCGGTTTGGAGACTCTGTCAACCGGCGAGGAGCGG	922
Db	1086	CGTACACTCTTCAAGAGTGTGGGATTTCCCTTTGACATCTCTGTGGAGCGCAATGGCTGGG	1145
QY	923	AAAGTGGGCTCATCCCCACGGCGCTTACACTGGGACCCGGGTCAACCTTGTGGCTGTGGTGG	982
Db	1146	AAAGTTGACATCAATCCCTCAATATGACACCAATCAGGCTGTGGAAATTTGACATCTTTGGGATG	1205
QY	983	GTCACCTTTTCTGTGACCTGTCACTAGCTGTATGTGGATATGACAAATCCCATTTCTATCTGG	1042
Db	1206	GCCACAGTTCTCTGTGACCTGTGCTGTCTTCAATCTGCTTAAAGAGCACTTATATACMG	1265
QY	1043	AGGACAAAGTATGAGAGGCCAAGGCC	1069

QY	398	GTAAAAACAGCCACAGTGTGTG---TTCAATGGAGACCACAGACCTGTGAAATCTCG	454
Db	474	GTGAAGACGGGCGCTGCCTCGGAGAGAGAACTTGGCGCAGGGCACCCTGTGAGATCTTT	533
QY	455	AGTTGATGCCAGTAGAGAGTGGCTTGTGCCCTCGAGGGCCCTGCTGGCCAGGCCAG	514
Db	534	GCCGTGTGCCGTTGTGGAGACAAAGCTCCAGGCCGAGAGAGCCATTCTGAAGAGGCCGA	593
QY	515	AACCTTCACTGTTTATCAAAAACACAGTCAACCTTCAGCAAGTTCACTTCTTAAGTCC	574
Db	594	GACTTCACCAATTTTCAATAAGAACACATCGGTTTTCCCAATTCAATTCTCCAAAAGC	653
QY	575	AATGCTTTGAGAACTGGGACCCCAACCAATTATTAAGCACTGCCGTATGAACCAATTC	634
Db	654	AATGATGATGACGTCAAGAGACGATCTTTCCGAAATCATCTGCACATTTGGCCCCAAG--	710
QY	635	AGCCCTCACTATCCCGTGTCCGACATTGGGGACCTGTCGACMAAGGCTGAGAGGACCTTC	694
Db	711	AACCACTACTGCCCATCTTCCGATGGGGCTCCGATCCGCTGGGCCGGGAGCGACATTC	770
QY	695	GAGGACCTGGCGTTGCTGGGTGGCTCTGAAGCATCAAGATTCACTGGGATTTGTGACCTG	754
Db	771	CAGGATATAGCCCTGGAGGGGTGGCGGTGATAGGAATTATATTGAATGAACCTGTGATCTT	830
QY	755	GACACCGGGGACTCTGGGCTGCTGGCGCTACACTCTCTCCAGCTGCAGAGAGAA-----	809
Db	831	GATAAAGCTGCTCTGAAGTGCACCCCTCACTATTCTTTTAACTCGCTGACAAATPAACCTT	890
QY	810	-----GCTACAACCTTCAGSAGCAGCCACTCACTGCTGGAGAACCG	850
Db	891	TCAAAAGTGTCTCTCTCCGGGTACAACCTTCAGATTTGCAATATTAACGAGAGCGAGCC	950
QY	851	GGTGTGAGAGCCCGACCCCTGCTCAAGCTCTAATGGAATTCGGTTTCAGCATCCTGTGACC	910
Db	951	GGGGTGAGATTCCGACACCTGATGAAGAACCTAACGGGATTCGGTTTGACGTATGGTGAAC	1010
QY	911	GGGACGCGCAGGGAAGTTCCG	930
Db	1011	GGCAAGGGGTCTTCTCTCTG	1030

Search completed: November 10, 2005, 05:30:38
Job time : 451.577 secs

QY 61 GACAGGCTGGGGGCTTCTGATTATAAGACGAGAAAGTGGGCTCTCTCGCCAAAAAGG 120
DB 61 GACAGGCTGGGGGCTTCTGATTATAAGACGAGAAAGTGGGCTCTCTCGCCAAAAAGG 120
QY 121 CTACCAAGGAGCGGAGCTGGAAACCCAGTTTTCATCATCAACCAACTCAAGGGGTTTC 180
DB 121 CTACCAAGGAGCGGAGCTGGAAACCCAGTTTTCATCATCAACCAACTCAAGGGGTTTC 180
QY 181 CCGTCACTCAGATCAAGAGCTTGGAAACCGGCTGTGGAGTGTGGCCGACTCTGTAAGCC 240
DB 181 CCGTCACTCAGATCAAGAGCTTGGAAACCGGCTGTGGAGTGTGGCCGACTCTGTAAGCC 240
QY 241 ACCTCAGGAGAGAAAGTGTCTTCTTGGTGAACCACTTCTTGTGAACCCAGCCCAAGT 300
DB 241 ACCTCAGGAGAGAAAGTGTCTTCTTGGTGAACCACTTCTTGTGAACCCAGCCCAAGT 300
QY 301 TCAGGGCAGATGCCAGAGACCCCGTCCGTCAGCTGCTMAATGTGGTGTGACAGAGA 360
DB 301 TCAGGGCAGATGCCAGAGACCCCGTCCGTCAGCTGCTMAATGTGGTGTGACAGAGA 360
QY 361 CTGCCCCGAAAGGGAGGAGGACACACAGCCAGGTTAAAAACAGGCCAGTGTGGT 420
DB 361 CTGCCCCGAAAGGGAGGAGGAGACACACAGCCAGGTTAAAAACAGGCCAGTGTGGT 420
QY 421 GTTCAAATGGGACCCACAGGACTGTGAGATCTGGAGTTGGTGGCCAGTGAAGTGGCGT 480
DB 421 GTTCAAATGGGACCCACAGGACTGTGAGATCTGGAGTTGGTGGCCAGTGAAGTGGCGT 480
QY 481 TGTGCCCTGAGAGCCCTGCTGGCCAGGCCAGAACTTCAACTGTTCATCAAAAAAC 540
DB 481 TGTGCCCTGAGAGCCCTGCTGGCCAGGCCAGAACTTCAACTGTTCATCAAAAAAC 540
QY 541 AGTCACTTTCAGCAAGTTCAACTTCTCTAAGTCAATGCTTGGAGACTGGAGCCCA 600
DB 541 AGTCACTTTCAGCAAGTTCAACTTCTCTAAGTCAATGCTTGGAGACTGGAGCCCA 600
QY 601 CTATTTTAAAGCACTGCCGCTATGAAACCAATTCAGCCCTACTGTGCCGTTCGGCAT 660
DB 601 CTATTTTAAAGCACTGCCGCTATGAAACCAATTCAGCCCTACTGTGCCGTTCGGCAT 660
QY 661 TGGGGACCTGTGGCCAAAGGCTGGAAGGACCTTCAGAGACCTGGCGTGTGGTGGGCTC 720
DB 661 TGGGGACCTGTGGCCAAAGGCTGGAAGGACCTTCAGAGACCTGGCGTGTGGTGGGCTC 720
QY 721 TGTAGGCATCAGAGTTCACTGGAGTTGTGACTGTGACACCGGGAGACTTGGCTGTGGCC 780
DB 721 TGTAGGCATCAGAGTTCACTGGAGTTGTGACTGTGACACCGGGAGACTTGGCTGTGGCC 780
QY 781 TCACTACTCTCTTCAGACTGCAAGAGAAAGCTAACCTTCAGGACAGCCACTCACTGGTG 840
DB 781 TCACTACTCTCTTCAGACTGCAAGAGAAAGCTAACCTTCAGGACAGCCACTCACTGGTG 840
QY 841 GGAGCAACCGGGGTGTGAGAGCCCGACCTGTCTCAAGCTCTATGAAATCGCTTCACAAAT 900
DB 841 GGAGCAACCGGGGTGTGAGAGCCCGACCTGTCTCAAGCTCTATGAAATCGCTTCACAAAT 900
QY 901 CCGTGTCAACCGGAGGAGGAGAAAGTTGGGCTCATCCCCACGGCGTCACTGTGGGAC 960
DB 901 CCGTGTCAACCGGAGGAGGAGAAAGTTGGGCTCATCCCCACGGCGTCACTGTGGGAC 960
QY 961 CCGGGGAGCTGTGGCTGGCGGTGTCACTTTTCTGTGACTGTCTACTGTGTATGTGA 1020
DB 961 CCGGGGAGCTGTGGCTGGCGGTGTCACTTTTCTGTGACTGTCTACTGTGTATGTGA 1020
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DB 1021 TAGAGAAAGCCCATTTTCTACTGAGAGCAAAAGTATGAGAGGCCAAGGCCCGGAAAGCAAC 1080
QY 1081 CGCAACTCTGTGTGAGAGGAGCTGGCCCTTGCATCCCAAGCCGAGTGGCCGAGTGCC 1140
DB 1081 CGCAACTCTGTGTGAGAGGAGCTGGCCCTTGCATCCCAAGCCGAGTGGCCGAGTGCC 1140
QY 1141 CAGACGAGAGCTGACACTGACCCACGCGCACTGTGCTGGAGTTCAGACAGACACC 1200

DB 1141 CAGACGAGAGCTGACACTGACCCACGCGCACTGTGCTGGAGTTCAGACACAGACACC 1200
QY 1201 AAGATGAGCCCTGTCCAAAGTTTGAACACCCACTTGGCAACCAATTCGGGAGGCTGTAGCC 1260
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DB 1321 GGATGAGGCCCCAGCATGAGAGATTGGGGGTAGAAATTCACCCCTTGAACCCAGCAACAA 1380
QY 1381 GTTCCCTCCCTGACTCCCACTTGGATGGGCTGTGCTCAGGAGCATAGAAAGTGGCT 1440
DB 1381 GTTCCCTCCCTGACTCCCACTTGGATGGGCTGTGCTCAGGAGCATAGAAAGTGGCT 1440
QY 1441 GTGTTTGTAGAGCGGACAGAACTTGACCCGTGAGACTGAGAGAGCCGACGAGCACT 1500
DB 1441 GTGTTTGTAGAGCGGACAGAACTTGACCCGTGAGACTGAGAGAGCCGACGAGCACT 1500
QY 1501 GTATTGCAAGGCTCCGACTGTGATGTGGCAGGGGCTTCTGCTGTGGGCTTGGAGTTC 1560
DB 1501 GTATTGCAAGGCTCCGACTGTGATGTGGCAGGGGCTTCTGCTGTGGGCTTGGAGTTC 1560
QY 1561 TGTCTCCAGTCTGTGTGCCAGTGTCTTGTGACAGAGGTATGCTTACCAGCTGTGAGA 1620
DB 1561 TGTCTCCAGTCTGTGTGCCAGTGTCTTGTGACAGAGGTATGCTTACCAGCTGTGAGA 1620
QY 1621 CAGACCTCTCTGCTGTGGTCTTGGGCTTCTGAGGCTTCCCATCTGCAACCCCATCATAGGT 1680
DB 1621 CAGACCTCTCTGCTGTGGTCTTGGGCTTCTGAGGCTTCCCATCTGCAACCCCATCATAGGT 1680
QY 1681 AAGAGACCCCACTCTCCATCGGTCTTCAATGSSGCTGTGACACTGAGCCAAAGAGCA 1740
DB 1681 AAGAGACCCCACTCTCCATCGGTCTTCAATGSSGCTGTGACACTGAGCCAAAGAGCA 1740
QY 1741 GGCAAAAAGAGAGTGTGGGAGAGGGGATTTGTTACACTTCTGTGGTGTGTATGCC 1800
DB 1741 GGCAAAAAGAGAGTGTGGGAGAGGGGATTTGTTACACTTCTGTGGTGTGTATGCC 1800
QY 1801 CCAAGAGAGTCTTAATCTAAGGAAATGGGGTGAAGTAGGCAATTAATCCAACCTTCTATCC 1860
DB 1801 CCAAGAGAGTCTTAATCTAAGGAAATGGGGTGAAGTAGGCAATTAATCCAACCTTCTATCC 1860
QY 1861 CCAAGGCAAGGGCGGAGCATGTGTCTTGGGCCCACTGTCTTAACTTATGAGAGCCGGC 1920
DB 1861 CCAAGGCAAGGGCGGAGCATGTGTCTTGGGCCCACTGTCTTAACTTATGAGAGCCGGC 1920
QY 1921 TGTCTTCCAGTGTAGCCCTTTTGGCATGAGAGTGTGGAGAGAGAGAGAGGAGCGGCA 1980
DB 1921 TGTCTTCCAGTGTAGCCCTTTTGGCATGAGAGTGTGGAGAGAGAGAGAGAGGAGCGGCA 1980
QY 1981 GCGTAAGTGTGATCATTTGGGTTCTTCAAGCACTTCTAATCCCTCTCGGTAACCCCC 2040
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QY 2161 GCAGCTGCTCGAGGAGGAGGCTGTGATCCAGGCTGTGATGAGAGGAGGAGGAGGAA 2220
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QY 2221 TGGTTCAAAACAACCAACGAGATCTCCTCAAGGCTGGCCAGGTTTTCAGCTGGAATT 2280


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QY 2433 CACCTGAGCCTCAGTAAATGCGGTGCGCTGCTCTCAATCTCCAGAGCCATG 2492
DB 14626 CACCTGAGCCTCAGTAAATGCGGTGCGCTGCTCTCAATCTCCAGAGCCATG 14685
QY 2493 TCCATGGGAGGTGGCTCTGTAAGGCGGAAGGTGGAGAGCAGGCGCTGAGGCTGGG 2552
DB 14686 TCCATGGGAGGTGGCTCTGTAAGGCGGAAGGTGGAGAGCAGGCGCTGAGGCTGGG 14745
QY 2553 TATCCAGAGAGGGGCGGTGACCTGATCTCTTGGGGCCGAGAGAGCTGATGTCAT 2612
DB 14746 TATCCAGAGAGGGGCGGTGACCTGATCTCTTGGGGCCGAGAGAGCTGATGTCAT 14805
QY 2613 GGCTGACAAAGTCACGAGAGTAAGCCAGCAAGCCACC 2651
DB 14806 GGCTGACAAAGTCACGAGAGTAAGCCAGCAAGCCACC 14844

RESULT 3
US-09-864-761-9190/c
; Sequence 9190, Application US/09864761
; Patient No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 9190
; LENGTH: 569
; TYPE: DNA

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; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC002472.3
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.6
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.3
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.2
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.4
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.4
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.4
US-09-864-761-9190

Query Match 21.1%; Score 567.4; DB 9; Length 569;
Best Local Similarity 99.8%; Pred. No. 26-147;
Matches 568; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1497 ACCGTATTGACAGGGCTCCGACTGCATGTGCGAGGGGCTCTGCTGCTGAGGCTGCA 1556
DB 569 ACCGTATTGACAGGGCTCCGACTGCATGTGCGAGGGGCTCTGCTGCTGAGGCTGCA 510
QY 1557 GGCTCTCTCCAGAGTGTGTCGCCAGGTGCTTAAGCAGAGGTAAGCTTACAGCTGTC 1616
DB 509 GGCTCTCTCCAGAGTGTGTCGCCAGGTGCTTAAGCAGAGGTAAGCTTACAGCTGTC 450
QY 1617 AGCAGACCCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1676
DB 449 AGCAGACCCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 390
QY 1677 AGGTAGAGACCCCACTCTCCATCGGTCTTACATGAGGCTGTGACCTGAGCCAAAG 1736
DB 389 AGGTAGAGACCCCACTCTCCATCGGTCTTACATGAGGCTGTGACCTGAGCCAAAG 330
QY 1737 GCAAGGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1796
DB 329 GCAAGGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 270
QY 1797 TGCCCCAGAGAGTCTTAATCTAGGGAATGGGTGAGTAGAGCAGATATCCACCTCCT 1856
DB 269 TGCCCCAGAGAGTCTTAATCTAGGGAATGGGTGAGTAGAGCAGATATCCACCTCCT 210
QY 1857 ATCCCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1916
DB 209 ATCCCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 150
QY 1917 CGGCTGCTTCCAGTGTGATGAGCCCTTTGTCATGAGAGAGTGTGAGAGAGAGAGAGAG 1976
DB 149 CGGCTGCTTCCAGTGTGATGAGCCCTTTGTCATGAGAGAGTGTGAGAGAGAGAGAGAG 90
QY 1977 GCAGGCTAAGTGTGATCATTTGGATTCTTCAGGACCTTCTAATATCCCTCTCGGTAC 2036
DB 89 GCAGGCTAAGTGTGATCATTTGGATTCTTCAGGACCTTCTAATATCCCTCTCGGTAC 30
QY 2037 CCCCCAGCCCAACCCCTTGGAATCTTTCC 2065
DB 29 CCCCCAGCCCAACCCCTTGGAATCTTTCC 1

RESULT 4
US-09-864-761-9695/c
; Sequence 9695, Application US/09864761
; Patient No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312

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; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263,6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO 9695
; LENGTH: 577
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC002472.3
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 15
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 47
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 17
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.2
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 59
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 25
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 22
; US-09-864-761-9695

Query Match      14.0%; Score 377; DB 9; Length 577;
Best Local Similarity 100.0%; Pred. No. 2,6e-94;
Matches 377; Conservatvie 0; Mismatches 0; Indels 0; Gaps 0;

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QY 2515 AGGCGGAGGTGGAGAGCAGGGCCCTGAGGCTGGATCCAGAGAGGCGACGTGCA 2574
DB 337 AGGCGGAGGTGGAGAGCAGGGCCCTGAGGCTGGATCCAGAGAGGCGACGTGCA 278
QY 2575 CTTGATTCTCTTTGGGGCCCAAGAAAGTGAATGCTGTCAGCAAAATCACAGGTA 2634
DB 277 CTTGATTCTCTTTGGGGCCCAAGAAAGTGAATGCTGTCAGCAAAATCACAGGTA 218
QY 2635 AAGCAGCAAAAGCCACC 2651
DB 217 AAGCAGCAAAAGCCACC 201

RESULT 5
US-10-895-225A-54
; Sequence 54, Application US/10895225A
; Publication No. US20050048587A1
; GENERAL INFORMATION:
; APPLICANT: Rao, Patricia
; APPLICANT: Snyder, Jessica
; APPLICANT: Bagley, Andria
; TITLE OF INVENTION: METHODS FOR IDENTIFYING TOLERANCE
; TITLE OF INVENTION: MODULATORY COMPOUNDS AND USES THEREFOR
; FILE REFERENCE: TLN-025
; CURRENT APPLICATION NUMBER: US/10/895,225A
; PRIOR FILING DATE: 2004-07-19
; PRIOR APPLICATION NUMBER: 60/488,502
; PRIOR FILING DATE: 2003-07-17
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 2299
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-895-225A-54

Query Match      10.6%; Score 285.6; DB 22; Length 2299;
Best Local Similarity 57.9%; Pred. No. 1.4e-68;
Matches 582; Conservatvie 0; Mismatches 394; Indels 30; Gaps 3;

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Db      692 AATGTCCTAGAAACAGAGCAACAAACATTCCTCTGAAAACTGTCACTTCAGCTCCA---CC 748
Qy      635 AGCCCTTACTGTCGCGGTTCCGATTTGGGGACCTGTGGCCAAAGGTGAGGAGCACTTC 694
Db      749 AATCTTACTGCCCCCATCTTCCGACTGGGGTCCATTTGTCGGGAGGGGCTGACTTC 808
Qy      695 GAGACCTGCTGCTGCTGGGTGGCTGTGAGCATGAGTTCATCTGAGATTGTGACCTG 754
Db      809 CAGGACATGACCTTGAAGGGCGGTGTGATGAGAAATCCACATTTGATGGAGCTGTGACCTT 868
Qy      755 GACACCGGGAGCTCTGAGCTGCTGCTCACTACTCTCTTCCAGCTGCAGAGAAAG----- 809
Db      869 GATAAAGCTGCTCCCACTGCAACCCACATATTTATTTCAACCGCTGGGCAACAAACAC 928
Qy      810 -----GCTACAACTTGAGGACAGCCACTCAGTGGTGGAGCAACCG 850
Db      929 ACACAACTCCATCTCTCTGTGGGTATTACTTCAGGTTTGGCCAGTATTAACCTGACCTCAT 988
Qy      851 GGTGTGAGAGCCCGCACCCCTGCTCAAGCTCTATGAAATCCGCTTCGACATCCTGTCACC 910
Db      989 GGGGTAGAGTTCGGTGAACCTGATGAAGACATATCGGATCCGCTTTGATGTGATGATTAAT 1048
Qy      911 GGGCAGCGCAGGAAGTTGGGGCTCATTCGCCAGCGCGTCACTGGGACCGGGGAGCT 970
Db      1049 GGCAGAGCGGGGAAATTCAGCATCATCCCAAGTCAATCAACATGTGTTCCGGGCTGGCG 1108
Qy      971 TGGCTGGGGGTGCTCACTTTCTGTGACCTGCTACTGCTGATGTGATGATGAGAGGC 1030
Db      1109 CTCATGGGTGCTGGGCTTTCTCTGTGACCTGTGACTTATCTACCTCATCAGAAAGAGC 1168
Qy      1031 CATTTCTACTGAGGACAAAGTATGAGAGGCCCAAGCCCGGAAAG 1076
Db      1169 GAGTTTACCGAGACAAGAGTTTGAGAGGTGAGGGGTGAGAAAG 1214

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RESULT 6
US-10-172-118-786
; Sequence 786, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yundong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; PRIOR FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 786
; LENGTH: 1978
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: NM_002561
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-786

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Query Match      9.0%; Score 243.6; DB 18; Length 1978,
Best Local Similarity 58.3%; Pred. No. 6,9e-57;
Matches 501; Conservativity 0; Mismatches 329; Indels 30; Gaps 3;

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Qy      98 TGGGCTCTCTCCGCGCAAAAAGGCTACGAGAGCGGAGACCTGAGACCCAGTTTCCATC 157
Db      175 TGGGCTTCTCTGATTAAGAGGGTTACCAAGAGCTGCACCTCCCTGCGAGAGTCTGTC 234

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Qy      158 ATCACCAAACTCAAAAGGGTTTCCGTCACTCAATCAAGACCTTGAACCCGGCTGG 217
Db      235 ATCACCAAACTCAAGGGCTGGGCTTACACCAACCTGGGATCTTGGGACGGGATCTCG 294
Qy      218 GATGTGGCCGACTTGTGTAAGCACTCAAGGAGAAAGCTGTCTTCTTGGTGAACAC 277
Db      295 GATGTGGCCGACTTGTGTAAGCACTCAAGGAGAAAGCTGTCTTCTTGGTGAACAC 354
Qy      278 TTCCTTGTGAGCGCAGACCCAAAGTTCCAGGCAATGCCAGACACCTGCTCCACTG 337
Db      355 CTCATTTGTATCCCCCAACCAAGGGGAGAACTGTGCTGTGAATTAAGCAATTCCTTAAT 414
Qy      338 GCTAACTGTGTGTGACAGAGACTGCCCCGAGAGGGGAGAGGACACACAGCCACGT 397
Db      415 GGGCGCTGCTCCAAAGAGACAGCACTGCCAGCTGGGAGAGCGCTTACATGTGAAACAG 474
Qy      398 GTTAAACAGGCGCAGTGTGTGTG---TTCAATGGAGCCACAGGACCTGTGAGATTTGG 454
Db      475 GTGMAAGCCGGCGCGCTGCGGAGAGGAACTTGGCCAGAGGACCTTGAAGATTTT 534
Qy      455 AGTTGGTGGCCAGTGGAGAGTGGCGTTGTGCCCTGAGGCGCTGCTGAGCCAGGCGCAG 514
Db      535 GCTGTGTGCTGCTGGAGACAGCTTCAGGCGGGAGAGCCATTCCTGAAAGAGGCTCA 574
Qy      515 AACTTCACTGTTCATCAAAAACAGATCACTTCAGCAAGTTCAACTTCTTAAAGTCC 574
Db      595 GACTTACCATTTTCAATAAAGAACCAACATCCGTTTCCCAATTCACATTTCCCAAAAC 654
Qy      575 AATGCTTGGAGACCTGGGACCCCACTATTTTAAAGCATGTGCGGCTATGAAACCAATTC 634
Db      655 AATGTGATGAGAGCTCAAGAGACAGATCTTTCGAAATCATGTCACTTGGCCCCAAG--- 711
Qy      635 AGCCCTTACTGTCCGCTGTTCCGCAATTGGGAGACTGTGGCCAGGCTGAGGAGACTTC 694
Db      712 AACCACTACTGCCCATCTTCCGACTGGGCTCATCTGCTGCGGCGGGAGCCACTTC 771
Qy      695 GAGGACCTGCGCTGTGCTGGGTGCTGTGAGCATCAAGATTCACTGGGATGTGACCTG 754
Db      772 CAGGATATAGCCCTGCGAGGTGGCGTGAATGAAATTAATTTGAATGAAATGTAATCT 831
Qy      755 GACACCGGGAGCTCTGCGCTGCGCTCACTACTCTTCCAGCTGCAGAGAAAG----- 809
Db      832 GATTAAGCTGCTCTGAGTGCAACCTCACTATTTCTTTAGCGTGTGACAAATAAATCT 891
Qy      810 -----GCTACAACTTCAGAGACACCACTCACTGAGTGGTGGAGCAACCG 850
Db      892 TCAAAGTCTGTCTCTCCGCGGTACAACTTCAGATTTGCCAGATATTACCGAGACAGAGCC 951
Qy      851 GGTGTGAGAGCCCGCACCCCTGCTCAAGCTTATGAAATCCGCTTCACAACTTCTGTACC 910
Db      952 GGGGTGAGTTCGGCACCTGATGAAGAGCTGACGGGATCCGCTTGAAGCTGATGTGAGAC 1011
Qy      911 GGGCAGCGCAGGAAGTTCCG 930
Db      1012 GGCAGAGGTGCTTTCTTCTG 1031

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RESULT 7
US-10-342-887-786
; Sequence 786, Application US/10342887
; Publication No. US20040058340A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yundong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van 't Veer, Laura Johanna
; APPLICANT: Van de Vijver, Marc J.
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients;
; FILE REFERENCE: 9301-188-999
; CURRENT APPLICATION NUMBER: US/10/342,887

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; CURRENT FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/298,918
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/380,710
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: 10/172,118
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 2689
; SEQ ID NO 786
; LENGTH: 1978
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-342-887-786

Query Match
Best Local Similarity 58.3%; Score 243.6; DB 19; Length 1978;
Matches 501; Conservative 0; Mismatches 329; Indels 30; Gaps 3;

Qy 98 TGGGCTCTCTCGCCAAAAGGCTACCCAGAGCGGAGCTGGAACCCAGTTTTCATC 157
Db 175 TGGGTGTTCTTGATTAAGAAAGGTTACCAAGACGTCCACACCTCTGCGAGAGTCTGTC 234
Qy 158 ATCAACCAACTCAAGGGGTTTCCGTCACTCAGATCAAGAGCTTGGAAAACGGCTGTGG 217
Db 235 ATCAACCAAGTCAAGGGCGTGGCTTCCACCAACACTCGGATCTTTGGGCAAGCGGATCTGG 294
Qy 218 GATGTGGCCGACTTCTGTGAAGCCACTCAGGAGAGAACTGTCTTCTTGTGTGACCAAC 277
Db 295 GATGTGCCCACTACGTCATTCAGCCAGGAGAGAAAGCTTTTGTGTGTACCAAC 354
Qy 278 TTCCCTGTGACGCGACCCAAAGTTCCAGGCGAGATGCCAGACGCCGTCCGTCCACTG 337
Db 355 CTGATTTGTGACCCCAACACGCGGACAGACGCTCTGTCTGAAATGAAAGCATTCGTGAT 414
Qy 338 GCTAACTGTGCTGCTGACGAGACTGCCCGAAGGGAGGAGGACACACAGCCACGT 397
Db 415 GGGCGGTGCTTCAAGGACAGGAGCTGCGACGCTGGGAAGGGTTACAGCTGGAAGGA 474
Qy 398 GTAAAAACAGGCCAGTGTGTG--TTCAATGGACCCACAGAGACCTGTGAGATCTGG 454
Db 475 GTGAAGACCGGCGCTCTCGGAGAGGAACTTGGCCAGGGGCACTGTGAGATCTTT 534
Qy 455 AGTTGGGCCAGTGGAGAGTGGCTGTGCTCGAGGCCGCCGCGCCAGGCCACAG 514
Db 535 GCCTGTGGCCGTTGGAGACAAGCTCAGGCGGAGAGGCAATTCCTGAAGAGGCGAA 594
Qy 515 AACTTCACTGTTCATCAAAAACACAGTCACTTCAAGAGTTCAACTTCTTAAGTCC 574
Db 595 GACTTACCATTTTCAATAAAGAACCAATCCGTTTCCCAATTCACCTTCTCCAAAAC 654
Qy 575 AATGCTTGAAGACTGGGACCCCACTATTTAAGACTGCGCTATGAACCAATTC 634
Db 655 AATGTGATGACGTCAGAGACAGATCTTTCCTGAATATGCACTTTGGCCCAAG-- 711
Qy 635 AGCCCCACTGTCGCCGTTCCGATTTGGGGACCTCGTGGGCAAGCTGAGGAGGACCTTC 694
Db 712 AACCACTACTGCCCATCTTCCGACTGAGCTCACTGCGCTGCGGAGGAGGAGCTTC 771
Qy 695 GAGGACCTGCGTGTGCTGGTGGCTCTGTAGGCACTCAGATTCACTGGGATTTGACCTG 754
Db 772 CAGGATTAAGCCCGGAGGAGTGGGCTGATAGGATTAATATGATGAAGACTGTGATCTT 831
Qy 755 GACACCGGGACTTGTGCTGCTGCTGCTCACTCTCTTCAAGCTGACAGAGAGA---- 809
Db 832 GATTAAGCTGCTGTGAGTGCACCTCACTATTCTTTAGCCGCTGGAACAATAAATT 891
Qy 810 -----GCTACACTGTGAGAGAGCACTCACTGCTGGAGGAGCAACCG 850
Db 892 TCAAAAGTCTGCTCTCCGGGTACAACCTTCAGATTGCGAATTTACCGAGAGCAAGCC 951
Qy 851 GGTGTGAGGCGCCAGCTGCTCAAGTCTATGAATCCGCTTCAAGATCTGCTCAAC 910
Db 952 GGGGTGAGTTCGCGACCTGTATGAAGCCTAAGGATCCGCTTTGACGTGATGTGAAC 1011
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```

Qy 911 GGGCAGGCGACGGAAGTTCCG 930
Db 1012 GGCAAGGTCCTTCTTCTG 1031

RESULT 8
US-10-370-715B-571
; Sequence 571, Application US/10370715B
; Publication No. US20040258678A1
; GENERAL INFORMATION:
; Patin Docket Preview
; APPLICANT: BODARY, SARAH C.
; APPLICANT: CLARK, HILLARY
; APPLICANT: BRISDELL, HUNTE
; APPLICANT: JACKMAN, JANET
; APPLICANT: SCHOENFELD, JILL R.
; APPLICANT: WILLIAMS, P. MICKEY
; APPLICANT: WOOD, WILLIAM I.
; APPLICANT: MU THOMAS D.
; TITLE OF INVENTION: Compositions and Methods for the Treatment of Immune
; FILE REFERENCE: P1948R1-US
; CURRENT APPLICATION NUMBER: US/10/370,715B
; CURRENT FILING DATE: 2003-02-21
; NUMBER OF SEQ ID NOS: 742
; SEQ ID NO 571
; LENGTH: 1978
; TYPE: DNA
; ORGANISM: Homo sapien
; US-10-370-715B-571

Query Match
Best Local Similarity 58.3%; Score 243.6; DB 21; Length 1978;
Matches 501; Conservative 0; Mismatches 329; Indels 30; Gaps 3;

Qy 98 TGGGCTCTCTCGCCAAAAGGCTACCCAGAGCGGAGCTGGAACCCAGTTTTCATC 157
Db 175 TGGGTGTTCTTGATTAAGAAAGGTTACCAAGACGTCCACACCTCTGCGAGAGTCTGTC 234
Qy 158 ATCAACCAACTCAAGGGGTTTCCGTCACTCAGATCAAGAGCTTGGAAAACGGCTGTGG 217
Db 235 ATCAACCAAGTCAAGGGCGTGGCTTCCACCAACACTCGGATCTTTGGGCAAGCGGATCTGG 294
Qy 218 GATGTGGCCGACTTCTGTGAAGCCACTCAGGAGAGAACTGTCTTCTTGTGTGACCAAC 277
Db 295 GATGTGCCCACTACGTCATTCAGCCAGGAGAGAAAGCTTTTGTGTGTACCAAC 354
Qy 278 TTCCCTGTGACGCGACCCAAAGTTCCAGGCGAGATGCCAGACGCCGTCCGTCCACTG 337
Db 355 CTGATTTGTGACCCCAACACGCGGACAGACGCTCTGTCTGAAATGAAAGCATTCGTGAT 414
Qy 338 GCTAACTGTGCTGCTGACGAGACTGCCCGAAGGGAGGAGGACACACAGCCACGT 397
Db 415 GGGCGGTGCTTCAAGGACAGGAGCTGCGACGCTGGGAAGGGTTACAGCTGGAAGGA 474
Qy 455 AGTTGGGCCAGTGGAGAGTGGCTGTGCTCGAGGCCGCCGCGCCAGGCCACAG 514
Db 535 GCCTGTGGCCGTTGGAGACAAGCTCAGGCGGAGAGGCAATTCCTGAAGAGGCGAA 594
Qy 515 AACTTCACTGTTCATCAAAAACACAGTCACTTCAAGAGTTCAACTTCTTAAGTCC 574
Db 595 GACTTACCATTTTCAATAAAGAACCAATCCGTTTCCCAATTCACCTTCTCCAAAAC 654
Qy 575 AATGCTTGAAGACTGGGACCCCACTATTTAAGACTGCGCTATGAACCAATTC 634
Db 655 AATGTGATGACGTCAGAGACAGATCTTTCCTGAATATGCACTTTGGCCCAAG-- 711
Qy 635 AGCCCCACTGTCGCCGTTCCGATTTGGGGACCTCGTGGGCAAGCTGAGGAGGACCTTC 694
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Db      712 AACCACTACTGCCCCCATCTTCCGACTGGGCTCCATGCTCCGCTGGGCGGAGCACTTC 771
Qy      695 GAGGACCTGGCGCTGTGGGTGGCTCTGTAGATCAGAGTTCACGTGGATTTGTGACCTG 754
Db      772 CAGGATATATACCTCGTGGAGGTGGCGGTGATGGAATTATATTAATGAATGAATCTGTGATCTT 831
Qy      755 GACACCGGGGACTCTGTGCTGTGGCTCTCACTACTCTCTTCCAGCTGAGAGAA----- 809
Db      832 GATTAAGCTGTCTCTGATGCTGCACCCCTCACTATTCTTTTAGCCGTCTGGACATTAACCTT 891
Qy      810 -----GCTAACACTTACAGACAGCCACTCACTGCTGGAGCAACCG 850
Db      892 TCMAAGCTGTCTCTCTCCGGGTACAACTTCAGATTGGCCAGATATTAACGAGAGCGAGCC 951
Qy      851 GGTGTGAGGCGCCGACCCCTGCTCAAGCTCTATGGAATCCGCTTCGACATCTCTGACAC 910
Db      952 GGGGTGAGTTCCTCGACCCCTGATGMAAGCTTACGGGATCCGCTTTGACGTGATGTGAMC 1011
Qy      911 GGGCAGGCGAAGGAGTTCCG 930
Db      1012 GGCAGAGGTGCTTTCTTCTG 1031

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```

RESULT 9
US-10-989-826-17
; Sequence 17, Application US/10989826
; Publication No. US20050238650A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Crowley, Craig
; APPLICANT: De Sauvage, Frederick J.
; APPLICANT: Eaton, Daniel L.
; APPLICANT: Ebyrne, Allen
; APPLICANT: Polson, Andrew
; APPLICANT: Smith, Victoria
; TITLE OF INVENTION: Compositions and Methods for the Treatment of Tumor of
; FILE REFERENCE: P5105R1US
; CURRENT APPLICATION NUMBER: US/10/989,826
; PRIOR FILING DATE: 2004-11-16
; PRIOR APPLICATION NUMBER: US 60/520,842
; PRIOR FILING DATE: 2003-11-17
; PRIOR APPLICATION NUMBER: US 60/532,426
; PRIOR FILING DATE: 2003-12-24
; NUMBER OF SEQ ID NOS: 75
; SEQ ID NO 17
; LENGTH: 1978
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-989-826-17

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Query Match      9.0%; Score 243.6; DB 23; Length 1978;
Best Local Similarity 58.3%; Pred. No. 6.9e-57;
Matches 501; Conservative 0; Mismatches 329; Indels 30; Gaps 3;

```

```

Qy      98 TGGGCTCTCTCCGCAAAAAAGGCTACCAAGACGGGAGCTTGAAACCCGAGTTTTCATC 157
Db      175 TGGGTGTCTCTGATTAAGAAAGGTTACCAAGAGTGGACACCTCCGACGAGTGTGATC 234
Qy      158 ATCACCAGAACTCAAGGGGTTTCCGTACTCAGATCAAGAGCTTGGAAACCGGCTGTGG 217
Db      235 ATCACCAGAACTCAAGGGGCTGGCTTTCACCAACCTCGGATCTTGGGCGAGGATCTGG 294
Qy      218 GATGTGGCGGACTTCTGTGAAGCACTCAAGGAGAGAGTGTCTTCTTGGTGGACCAAC 277
Db      295 GATGTGGCGGACTTCTGTGAAGCACTCAAGGAGAGAGTGTCTTCTTGGTGGACCAAC 354
Qy      278 TTCTTTGTGACGCGCAGAGTTCAGGGGAGATGGCCAGAGACCCGTCCTCCACTG 337
Db      355 CTGATTTGTACCCGCCAAGCAGCGGCGAAGAGTCTGTGCTGAGATGAAGGATTTCTGTAT 414
Qy      338 GCTAACTGCTGGTTCAGCAGAGACTGCCCGGAAAGGGAGGAGGCAACACAGCCAGGT 397

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Db      415 GGGCGCTGCTCCAGAGACAGCGACTGTCACAGCTGGGGAAAGCGGTTACAGCTGGAAACGGA 474
Qy      398 GTTAAAAACAGCCAGTGTGTGTG---TTCAATGGAGCCCAAGAGACCTGTGACATCTGG 454
Db      475 GTTAAACAGCGCGCGCTGCTGGGAGAGGAACTTGGCCAGGGGCACTGTGTGATCTTT 534
Qy      455 AGTTGTGCGCAGATGAGAGTGGCGCTTGTGCTTCAGAGCCCTTGTGGTCCAGTCCAG 514
Db      535 GCGTGTGCGCGCTTGGAGACAGCTCCAGGCGCCGAGAGACCTTCTTGAAGAGAGCTTGA 574
Qy      515 AACTTCACACTGTTCATCAAAAACACAGTCACTTCAGCAAGTTCAAGTTCTTGAAGTCC 574
Db      595 GACTTCACCATTTTCAATAAGAACCAATCCGTTTCCCAATTCAATCTTCCAAAAAC 654
Qy      575 AATGCTTGGAGACCGGGAGCCCAACCTATTTTAAAGCATGCGCGATGACACAAATTC 634
Db      655 AATGTGATGAGCTCAAGAGACAGATTTTCTGAATCATGCTTGTGCCCCCAAG--- 711
Qy      635 AGCCCTACTGTCCCTGTTCGCAATTGGGAGACCTTGTGGCAAGGCTGGAGGACCTTC 694
Db      712 AACCACTACTGCCCCCATCTTCCGACTGGGCTCCATGCTCCGCTGGGCGGAGCACTTC 771
Qy      695 GAGGACCTGGCGTGTGGGTGGCTCTGTAGGCATCAGAGTTCACTGGGATTTGTACCTG 754
Db      772 CAGGATATAGCCCTCGAGAGTGGCGCTGATAGGAATTAAATTCAAATGGAACCTGATCTT 831
Qy      755 GACACCGGGGACTCTGTGCTGTGGCTGCTCACTCTCTTCCACTGAGAGAAAG----- 809
Db      832 GATTAAGCTGCTCTGAGTGCACCCCTCACTATTCTTTAGCGGTTTGGACAAATTAATTT 891
Qy      810 -----GCTAACACTTCAAGACAGCCACTCACTGATGATGAGCAACCG 850
Db      892 TCMAAGCTGTCTCTCTCCGGGTACAACTTCAGATTGGCCAGATATTAATTCAAATGGAACCTG 951
Qy      851 GGTGTGAGGCGCCGACCCCTGCTCAAGCTCTATGGAATCCGCTTCGACATCTCTGACAC 910
Db      952 GGGGTGAGTTCCTCGACCCCTGATGMAAGCTTACGGGATCCGCTTTGACGTGATGTGAMC 1011
Qy      911 GGGCAGGCGAAGGAGTTCCG 930
Db      1012 GGCAGAGGTGCTTTCTTCTG 1031

```

```

RESULT 10
US-10-676-289-1
; Sequence 1, Application US/10676289
; Publication No. US20050074819A1
; GENERAL INFORMATION:
; APPLICANT: TSUDA, MAKOTO
; APPLICANT: KOIZUMI, SCHUICHI
; APPLICANT: KOHSAKA, SHINICHI
; APPLICANT: KOHSAKA, KAZUHIRO INOUE
; TITLE OF INVENTION: A SCREENING METHOD OF DRUG FOR TREATMENT OF NEUROPATHIC PAIN
; FILE REFERENCE: U 014843-4
; CURRENT APPLICATION NUMBER: US/10/676,289
; PRIOR FILING DATE: 2003-10-01
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 1167
; TYPE: DNA
; ORGANISM: HOMO SAPIENS
; NAME/KEY: CDS
; LOCATION: (1)..(1164)
US-10-676-289-1

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Query Match      8.9%; Score 239.2; DB 22; Length 1167;
Best Local Similarity 56.3%; Pred. No. 9.5e-56;
Matches 529; Conservative 0; Mismatches 378; Indels 33; Gaps 3;

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Qy      152 TCATCATCAACMAACTCAAGGGGTTTCTGCTACTCAGATCAAGAGACTTGGAAACCTGG 211

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Db 187 TCCGTTACGACCAAGGCTCAAGGGGCTGTGTGACCAACTTCTTAAGTTGATCCGG 246
Qy 212 CTGTGGATGTGGCCGCTTGTGAACCCACTCAGGAGAGAAAGTGTCTTGTGTG 271
Db 247 ATCTGGATGTGGGATGTATGTATACAGCTCAGAGAGAAATCTCTTGTGTATG 306
Qy 272 ACCAATCTCTTGTGACGCCAGCCCAAGTTCAAGGCGAGATGCCCCAGACCCGCTC 331
Db 307 ACCAAGCTGATCTCTACACATGAAACCAACAGAGGCGCTGTGCCGAGATTC---CAGAT 363
Qy 332 CCACTGGCTAATCTGTGGTGTGACGAGAGACTGCCGAGGGAGGAGGACACACAGC 391
Db 364 GCACACCTGTGTATATCAGATGACGAGCTGACTCCGCGCTGTCCGAGACCCACAGC 423
Qy 392 CAGGATGTAAAAACAGCCAGTGTGTGTGTATAGGACCCACAGAGCTGTGAATC 451
Db 424 AACGGAATCTCAACAGGAGGTGCTTCAACGGGTCCGTCAAGAGCTGTGAGGTG 483
Qy 452 TGGAGTTGTGCCAGTGGAGAGTGGC---GTTGTGCCCTGAGAGGCCCTGTGCCAG 508
Db 484 GCGGCTGTGTGCCGCTGTGGAGATGACACACAGTGCACAACTGCTTTTAAAGCT 543
Qy 509 GCCCAGAACTTCACTACTGTTCATCAAAAACAGACTCACTTCAAGAACTTCACTTCT 568
Db 544 GCAGAAACTTCACTCTTTTGGTTAAGAACAACTGTGTATCCCAATTTAATTTACG 603
Qy 569 AAGTCCAACTCTTGGAGACTGGGACCCCACTATTTTAAGACCTGCCGTATGAACA 628
Db 604 AAGAGGAATATCTTCCCAATCACCACACTTACTCAAGTCTCAATTTAATGAGCT 663
Qy 629 CAATTCAGCCCTACTCTGCCGTGTCCGATTTGGAGGACCTCGGGCCAGGCTGGAGG 688
Db 664 AAAACAGATCTCTTCTCCCATATTCCTGTGTGGCAAAATAGTGGAGAACGACAGC 723
Qy 689 ACCTTGAGAGACTGTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 748
Db 724 AGTTTCAGAGCAATGGCCGTGGAGAGGACATCATGGGCAATCCAGTCAACTGGAC 783
Qy 749 GACTTGACACCGGGGACTGTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 806
Db 784 AACTTGACAGAGCGGCTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 843
Qy 807 -----AGAGCTAACAATTCAAGACAGGCACTCACTGTGG 841
Db 844 GCGGACCTTGAGCAACGATCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 903
Qy 842 GAGCAACCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 901
Db 904 GACTGTGCTGTGCAACGAGCAGCGCCTCATCAAGGCTATGTGCATCCGTTGACATC 963
Qy 902 CTGTGTACCGGAGCAGGAGGAACTTGGGCTATCCCAAGGCGGTGACACTGGGACC 961
Db 964 ATTGTGTTTGGGAAGCAGGGAATTTGACATCATCCCACTATGATGATCATGGCTCT 1023
Qy 962 GGGGAGCTTGTGGGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1021
Db 1024 GGCTGTGCACTGTAGGCAATGGCGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGT 1083
Qy 1022 AGAGAACCCATTCTACTGTAGAGCAAAAGTATGAGAGG 1061
Db 1084 AAGAAAGACTCTACTATCGGAGAGAAATATATAATATG 1123
```

```
RESULT 11
US-09-833-082-1
; Sequence 1, Application US/09833082
; Patent No. US20020151480A1
; GENERAL INFORMATION:
; APPLICANT: Chun, Miyoung
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; FILE REFERENCE: NMI-227
; TITLE OF INVENTION: CARDIOVASCULAR DISEASE USING 10218
```

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; CURRENT APPLICATION NUMBER: US/09/833,082
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ. ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1389
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-09-833-082-1
```

```
Query Match 8.9%; Score 239.2; DB 9; Length 1389;
Best Local Similarity 56.3%; Pred. No. 1e-5;
Matches 529; Conservative 0; Mismatches 378; Indels 33; Gaps 3;
```

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Qy 152 TCCATCATCAACCAACTCAAGGCTTCCGTCACTCAGATCAAGAGCTGTGAAACCGG 211
Db 214 TCCGTTACGACCAAGGCTCAAGGGGCTGTGTGACCAACTTCTTAAGTTGATTCGG 273
Qy 212 CTGTGGATGTGGCCGCTTGTGAAGCCACTCAGGAGAGAAAGTGTCTTGTGTG 271
Db 274 ATCTGGATGTGGCGATTTATGTATACAGCTCAGAGAGAAATCTCTTGTGTATG 333
Qy 272 ACCAATCTCTTGTGACGCCAGCCCAAGTTCAAGGCGAGATGCCAGACCCGCTGC 331
Db 334 ACCAAGCTGATCTCTACACATGAACAGACACAGGCGCTGTGCCGAGATTC---CAGAT 390
Qy 332 CCACTGGCTAATCTGTGGGTGTGACAGAGACTGCCCGAAGGAGGAGGACACACAGC 391
Db 391 GCACACCTGTGTGTATATCAGATGACAGCTGTATCTGCCGCTGTGCCGACACACAGC 450
Qy 392 CAGGATGTAAAAACAGCCAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 451
Db 451 AACGGAATCTCAACAGGCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 510
Qy 452 TGGAGTTGTGCCAGTGGAGAGTGGC---GTTGTGCCCTGAGAGGCCCTGTGCCAG 508
Db 511 GCGGCTGTGTGCCGCTGTGGAGATGACACACAGTGCACAACTGCTTTTAAAGCT 570
Qy 509 GCCCAGAACTTCACTGTTCATCAAAAACAGACTCACTTCAAGAACTTCACTTCT 568
Db 571 GCAGAAACTTCACTCTTTTGGTTAAGAACAACTGTGTATCCCAATTTAATTTACG 630
Qy 569 AAGTCCAACTCTTGGAGACTGGGACCCCACTATTTTAAGCACTGCCCTATGAACA 628
Db 631 AAGAGGAATATCTTCCCAATCAGCACTACTTCAAGTGTGTGTGTGTGTGTGTGT 690
Qy 629 CAATTCAGCCCTACTGTCTCGTGTTCGCAATTTGGGACCTCGTGGCCAGGCTGAGG 688
Db 691 AAAACAGATCTCTTCTCCCATATTCGTTGTGGCAAAATAGTGGAGAACGACAGC 750
Qy 689 ACCTTGAGAGACTGTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 748
Db 751 AGTTTCAGAGCAATGGCCGTGGAGAGGACATGTGGGCAATCCAGGTCAACTGGACTGC 810
Qy 749 GACTTGACACCGGGGACTGTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 806
Db 811 AACTTGACAGAGCGGCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 870
Qy 807 -----AGAGCTAACAATTCAAGACAGGCACTCACTGTGG 841
Db 871 GCGGACCTTGAGCAACGATATCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 930
Qy 842 GAGCAACCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 901
Db 931 GACTGTGCTGTGCAACGAGCAGCGACGCTCATCAAGGCTATGTGCATCCGTTGACATC 990
Qy 902 CTGTGTACCGGAGCAGGAGGAACTTGGGCTATCCCAAGGCGGTGACACTGGGACC 961
Db 991 ATTGTGTTTGGGAAGGAGGAAATTTGACATCATCCCACTATGATCAACATCGCTCT 1050
Qy 962 GGGGAGCTTGTGGGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1021
Db 1051 GGCTGTGCACTGTAGGCAATGGCGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGT 1110
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Best Local Similarity 56.2%; Pred. No. 2.8e-55;
Matches 528; Conservative 0; Mismatches 379; Indels 33; Gaps 3;

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QY 152 TCATCATCAACCAACTCAAGGGGTTCCGTCTCATAGATCAAGAGCTTGGAAACGG 211
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 187 TCCGTACGACCAAGGTCAGGGGCTGTGTGACCAACTTCTTAACCTTGATTCGG 246
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 212 CTGTGGATGTGGCGCACTTGTGAAGCACTCAGGAGAGAAACGTTCTTCTTGTG 271
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 247 ATCTGGGATGTGGCGATTTATGTATACAGCTCAGAGAGAAACCTCCCTTGTGTATG 306
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 272 ACCAACTTCTTGTGACGCCCAAGTTCAAGGAGAGATGCCAGAGACACCCGTCGTC 331
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 307 ACCAAGCTGATCTCCACATGAAACACAGACAGGCGCTGTGCCCCGAGATTC---CAGAT 363
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 332 CCACTGCTAACTCTGTGGTGTGACGAGACTGCCCGAAGGGAGAGGACACACAGC 391
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 364 GCGACCACTGTGTAAATGATGACAGCTGTACTCCGCTCTGCGGACCCACAGC 423
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 392 CAGGCTTAAAAACAGGCGAGTGTGTGTCAATGAGACCCACAGAGACCTGTGATC 451
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 424 AAGGAGCTCAACAGGAGAGTGTGTGCTTTCAACGGGTCTCAAGACGTGTGAGGTG 483
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 452 TGGAGTGTGCCCCAGTGTGAGAGTGGC---GTGTGCTCTGAGGCCCTGTGAGCCAG 508
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 484 GCGGCTGTGTGCGGCTGTGAGAGATGACACACAGTGCACAACTGCTTTTAAAGGT 543
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 509 GCCCAGAACTTCACTGTTTCATTAATAACACAGTCACTTCAAGCAAGTTCACTTCT 568
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 544 GCAGAAAACTTCACTCTTTTGTGTAAAGAACATCTGTGATCCCAATTTAAATTCAGC 603
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 569 AAGTCAATGCTTGTGAGACTGTGGACCCCACTATTTAAGCATCCCGTATGAACA 628
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 604 AAGGGAATATCTTCCCAACATACCACTAATCAAGTCTCAAGTCTTAAAGTCT 663
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 629 CAATTCAGCCCTACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 688
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 664 AAAACAGATCTCCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 723
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 689 ACCTTGTGAGAGCTGCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 748
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 724 AGTTCAGAGACATGTGCTGTGAGAGGAGCATGTGGGCAATCCAGTCAACTGGAGCTGC 783
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 749 GACCTGTGACACCGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 806
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 784 AACCTGTGACAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 843
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 807 -----AGAGCTAACACTTCAAGAGACAGCAGCTCACTGGTGG 841
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 844 CCGGAGCTTGTAGACAAACGATATCTCTGCTGCTAACAATTTCAAGTTTGCACAGTACTACAGA 903
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 842 GAGCAACCGGCTGTGAGAGCCCGACCTCTGTCAAGCTCTATGAGAAATCCGCTTGCATC 901
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 904 GACTGTGCTGTGCAAGAGAGCGCACCTCATCAAGGCTCTATGTGCAATCCGCTTGCATC 963
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 902 CTGTGTACCGGAGAGAGGAAATGTGGGCTCATCCCAAGGCGCTGACACTGGGAGC 961
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 964 ATTTGTGTTGGAGAGGAGAAATTTGACATCAATCCCACTAATGATCAACATGGCTCT 1023
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 962 GGGGACACTTGTGGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1021
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1024 GGCTGTGCACTGTAGAGCATGTGCGACCGTGTGTGTACATCAATGCTCTTACTGCATG 1083
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1022 AGAGAACCCATTTTCTACTGTGAGAGCAAAATGATGAGAGG 1061
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1084 AAGAAAGACTCTACTATCGGAGAGAAATATAAATATG 1123
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

```

RESULT 14
US-10-386-414-18
; Sequence 18, Application US/10386414
; Publication No. US20040006016A1
; GENERAL INFORMATION:

```

; APPLICANT: Kapeller-Libermann, Rosana
; APPLICANT: Robison, Keith E.
; APPLICANT: White, David
; APPLICANT: Williamson, Mark W.
; APPLICANT: Cook, William James
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Macbeth, Kyle J.
; APPLICANT: Carroll, Joseph M.
; APPLICANT: Chun, Myoung
; TITLE OF INVENTION: NOVEL 27875, 22025, 27420, 17906, 16319,
; FILE REFERENCE: MP103-0210MIM
; CURRENT APPLICATION NUMBER: US/10/386,414
; CURRENT FILING DATE: 2003-03-11
; PRIOR APPLICATION NUMBER: 09/426,282
; PRIOR FILING DATE: 1999-10-25
; PRIOR APPLICATION NUMBER: 09/668,266
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/330,970
; PRIOR FILING DATE: 1999-06-11
; PRIOR APPLICATION NUMBER: 09/724,599
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 09/860,193
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: 10/283,023
; PRIOR FILING DATE: 2002-10-29
; PRIOR APPLICATION NUMBER: 60/335,044
; PRIOR FILING DATE: 2001-10-31
; PRIOR APPLICATION NUMBER: 10/010,943
; PRIOR FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: 60/254,037
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: 09/833,082
; PRIOR FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 1167
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-10-386-414-18

Query Match      8.8%; Score 237.2; DB 18; Length 1167;
Best Local Similarity 56.1%; Pred. No. 3.4e-55;
Matches 527; Conservative 1; Mismatches 379; Indels 33; Gaps 3;

QY 152 TCATCATCAACCAACTCAAGGGGTTCCGTCACTCATGATCAAGAGCTTGGAAACGG 211
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 187 TCCGTACGACCAAGGTCAGGGGCTGTGTGACCAACTTCTTAACCTTGATTCGG 246
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 212 CTGTGGATGTGGCGCACTTGTGAAACCACTCAGGAGAGAAACGTTCTTCTTGTG 271
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 247 ATCTGGGATGTGGCGATTTATGTATACAGCTCAGCTCAGAGAGAAACCTCCCTTGTGTATG 306
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 272 ACCAACTTCTTGTGACGCCCAAGTTCAAGGAGAGATGCCAGAGACACCCGTCGTC 331
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 307 ACCAAGCTGATCTCCACATGAAACACAGACAGGCGCTGTGCCCCGAGATTC---CAGAT 363
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 332 CCACTGCTAACTCTGTGGTGTGACGAGACTGCCCGAAGGGAGAGGACACACAGC 391
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 364 GCGACCACTGTGTAAATGATGACAGCTGTACTGCGGCTGTGCGGACCCACAGC 423
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 392 CAGGCTTAAAAACAGGCGAGTGTGTGTTCAATGTGAGACCAACAGACTGTGAGATC 451
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 424 AAGGAGCTTCAACAGGAGAGTGTGATCTTCAACGGGTCTGTCAAGAGCTGTGAGGTG 483
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 452 TGGAGTGTGCCCCAGTGTGAGAGTGGC---GTGTGCTCTGAGGCCCTGTGAGCCAG 508
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 484 GCGGCTGTGTGCGGCTGTGAGAGATGACACACAGTGCACAACTGCTTTTAAAGGT 543
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 509 GCCCAGAACTTCACTGTTTCATTAATAACACAGTCACTTCAAGCAAGTTCACTTCT 568
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 544 GCAGAAAACTTCACTCTTTTGTGTAAAGAACATCTGTGATCCCAATTTAAATTCAGC 603
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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QY 569 AAGTCCAAATGCTTGGAGACCTGGGACCCCACTATTTTAAGCACTGCGGTATGACCA 628
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 604 AAGAGAAATATCTCTCCCAACATCACACACTTACTCAAGTCGAGCATTTATGATGCT 663
QY 629 CAATTAGACCCCTACTGTCTCCGTTCTCCGATTGGGACCTCGTGGCAAGCTGGAGGG 688
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 664 AAAACAGATCTCTTCTGCCCCATATTCGCTTGGCAAAATATGTGAGAAACGACGACAC 723
QY 689 ACCTTGAGAGACCTGCGCTTCTGCTGGTGGCTGTATGAGCATGACAGTTCACTGGGATGT 748
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 724 AGTTTCAGAGACATGCGCCGCGAGAGGAGCATATGGCATCCAGGTCAACTGGACTGC 783
QY 749 GACCTTGACACCGGGGACTCTGGCTGCTGACCTCACTACTCTTCCAGCTGACAGAGA-- 806
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 784 AACCTGACAGACCGCGCTCCCTCTGCTTCCAGGATCTCTTCCGCGCGCTCGATACA 843
QY 807 -----AGACTTACAACTTCAGACAGCACTCACTGCTGTG 841
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 844 CGGACGTTGAGCACAACGTATCTCTGCTGCTACAAATTCAGGTTTGCACAACTACTACAG 903
QY 842 GAGCAACCGGCTGTGAGGCGCGACCCCTGCTCAAGCTATAGGAATCCGCTTGCACATC 901
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 904 GACTTGCTGACACCAACAGCCACGCTCATCAAGGCTTATGGCATCCGCTTGCACATC 963
QY 902 CTCGTACCGGGGAGGAGGAGTTCGGGCTCATCCCAAGGCGCTCACTGGGACCC 961
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 964 ATGTGTTTGGAGAGGAGGAAATTTGACATCATCCCCACTATGATCAACATCGGCTCT 1023
QY 962 GGGGACGTTGCTGGGCGCTGCTCACTTTTCTGTGACCTGCTACTGCTATGTGAT 1021
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1024 GGCTTGCACTGTGTAGGACATGGGACCGTGTGTGACATCATAGTCTCTACTGATG 1083
QY 1022 AGAGAGCCCATTTCTACTGAGAGACAAGTATGAGGAG 1061
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1084 AAGAAAAGACTTACTATCGGAGAGAAATATAATATG 1123

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RESULT 15
US-10-386-414-16

```

; Sequence 16, Application US/10386414
; Publication No. US20040006016A1
; GENERAL INFORMATION:
; APPLICANT: Koppeler-Libermann, Romana
; APPLICANT: Robison, Keith E.
; APPLICANT: White, David
; APPLICANT: Williamson, Mark W.
; APPLICANT: Cook, William James
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Macbeth, Kyle J.
; APPLICANT: Carroll, Joseph M.
; APPLICANT: Chun, Miyoung
; TITLE OF INVENTION: NOVEL 27875, 22025, 27420, 17906, 16319,
; FILE OF INVENTION: 55092 AND 10218 MOLECULES AND USES THEREFOR
; TITLE REFERENCE: MP103-0210NMIM
; CURRENT APPLICATION NUMBER: US/10/386,414
; PRIOR FILING DATE: 2003-03-11
; PRIOR APPLICATION NUMBER: 09/426,282
; PRIOR FILING DATE: 1999-10-25
; PRIOR APPLICATION NUMBER: 09/668,266
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/330,970
; PRIOR FILING DATE: 1999-06-11
; PRIOR APPLICATION NUMBER: 09/724,599
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 09/860,193
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: 10/283,023
; PRIOR FILING DATE: 2002-10-29
; PRIOR APPLICATION NUMBER: 60/335,044
; PRIOR FILING DATE: 2001-10-31
; PRIOR APPLICATION NUMBER: 10/010,943
; PRIOR FILING DATE: 2001-12-06

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; PRIOR APPLICATION NUMBER: 60/254,037
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: 09/833,082
; PRIOR FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 2048
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-386-414-16

```

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Query Match      8.8%; Score 237.2; DB 18; Length 2048;
Best Local Similarity 56.1%; Pred. No. 4,3e-55;
Matches 527; Conservative 1; Mismatches 379; Indels 33; Gaps 3;

```

```

QY 152 TCATATATACCAAACTCAAAAGGTTTCCGTCATCTACATCAAGAGCTTGGMAACCG 211
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 496 TCCGTTACGACCAAGGTCAAGGCGCTGGCTGTGACCAACCTTCAAACTTGGATTCG 515
QY 212 CTGTGGATGTGGCCGACTTCTGTAAAGCCACTCAGAGAGAGACGTTCTTGTGCTG 271
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 556 ATCTGGATGTGGCGATTATGTGATACAGCTCAGAGAGAAATCTCTTCTGCTATG 615
QY 272 ACCAACTCTCTGTGACGCGCAACCCAAAGTTCAAGGCGAATGCCACAGACCTTCCCTC 331
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 616 ACCAACTGATCTCTCACTGAAACCCAGACAGAGGCGCTGCTCCGACGATTC--CA 672
QY 332 CCACTGGCTAATCTGCTGGGTGACAGAGACCTCCCGAAGGAGAGAGACATCAACAGC 391
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 673 GCGACCACTGTGTAAATCAATGCAATGCACTGATGCTGCGGCTTCTCCGCAACCAAGC 732
QY 392 CAGGCTGTAAACACAGGCGAGTGTGTGTTCAATGGAGCCACACAGACTGTGATG 451
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 733 AACGAGTCTCAACAGGACAGGTGCTGATGCTTCAAGGCTGTGTCAAGACGTGTAGTG 792
QY 452 TGGAGTGTGCCCACTGAGAGAGTGCC--GTTGCTCCCTGAGGCGCTGCTGCCAG 508
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 793 GCGGCTGTGCTCCGCTGAGAGATGACACACAGTCCCAACCTGCTTTTAAAGGCT 852
QY 509 GCCCAAACTTCACTGCTTTCATCAAAACACAGTCACTTCAAGCAAGTTCAACTTCT 568
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 853 GCAAAACCTTCACTTCTTGTGTAAAGCAACATCTGTATGCCAAATTTAATTTTAC 912
QY 569 AAGTCCAAATGCTTGGAGACCTGGGACCCCACTATTTTAAAGCAACCTTATTAACCA 628
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 913 AAGAGAAATATCTCTTCCCAACATCAACACTACTTCAATGCTGCTATTAATATGCT 972
QY 629 CAATTAGCCCTTACTGTCTCTGTTCCGATTTGGGACCTCTGTGCAAGGCTGGAGGG 688
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 973 AAAACAGATCTCTTCTGCCCCATATTCGCTTGGCAAAATATGTGAGAACGACGACAC 1032
QY 689 ACCTTGAGAGACTGCGCTTCTGCTGGTGTGCTGTGAAGATCAGAGTTCACTGGGATGT 748
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1033 AGTTTCAGAGACATGCGCTGTGAGGAGGACATCAATGAGTCAAGTCAACTGGGACTGC 1092
QY 749 GACCTGACACCGGGGACTCTGCTGCTGCTCACTACTCTTCCAGCTGACAGAGA-- 806
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1093 AACCTGACAGAGACCGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1152
QY 807 -----AGACTTACAACTTCAGACAGCACTCACTGCTGTG 841
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1153 CGGAGCTTGAGACACAACGTATCTCTGCTGCTCAAAATTCAGGTTTGCACAAATACAGA 1212
QY 842 GAGCAACCGGCTGTGAGGCGCGCAACCTGCTCAAGCTATAGGAATCCGCTTTCACATC 901
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1213 GACTTGCTTGGAGACGAGGCGCAGCTCAATCAAGGCTTATAGGCTTCCATTTGACATTC 1272
QY 902 CTCGTACCGGGGAGGAGGAGTTCGGGCTCATCTCCACGCGCTTCACTGATGCTGACCC 961
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1273 ATGTGTTTGGAGAGGAGGAGAAATTTGACATCATCTCCCACTATGATCAACATGCTCT 1332
QY 962 GGGGACGTTGGCTGGGCGTGTCACTTTTCTGTGACCTGCTACTGCTGTATGTGAT 1021

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Db 1333 GGCTGGCACTGCTAGGCATGGCGACCGTGCTGTGTGACATCATAGTCTCTACTGCATG 1392
Qy 1022 AGAGAAAGCCCATTTCTACTGAGAGACAAGATATGAGAGG 1061
Db 1393 AAGAAAGACTCTACTATCGGAGAGAGAAATATATAATATG 1432

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